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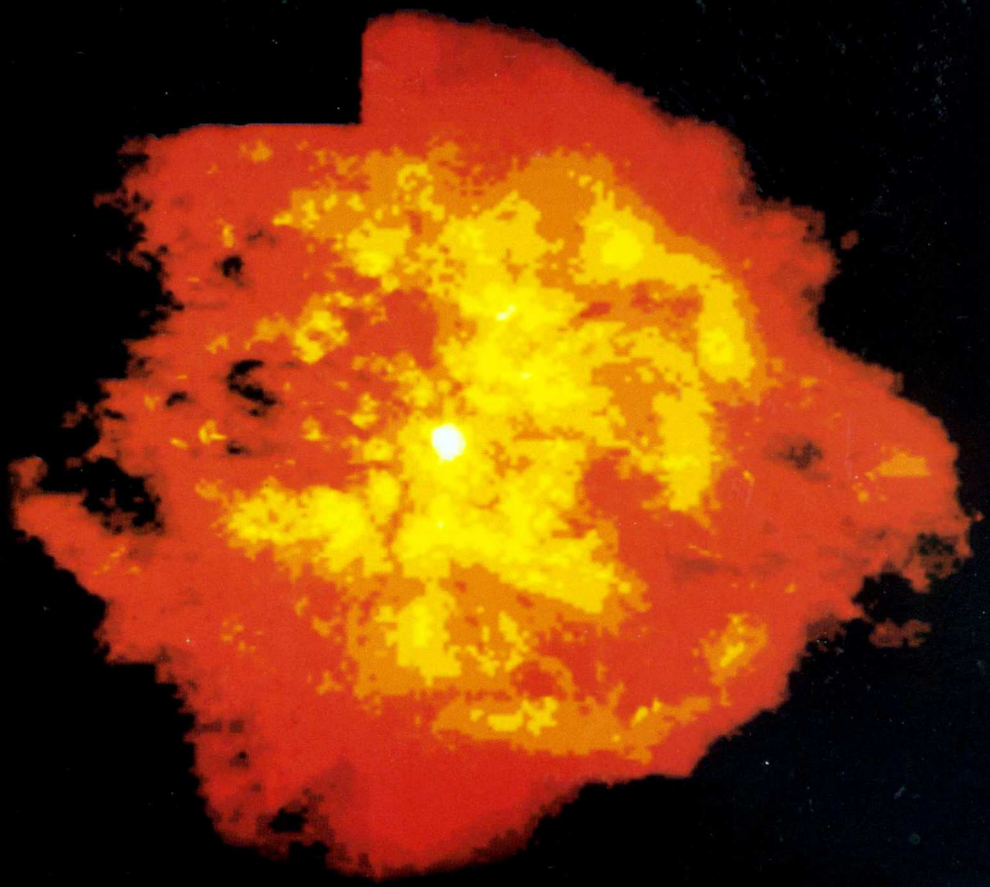

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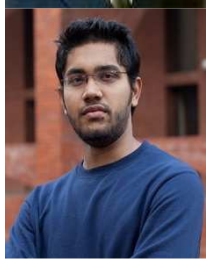
Md. Zakaria Mahbub	House No: 48, Road No: 8/A, Flat No: C6, Evergreen Meena, Dhanmondi, Dhaka-1209, Bangladesh.	zakariajon1313@gmail.com	

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Determining Additional Modulus of Subgrade Reaction Based on Tolerable Settlement For The Nailed-slab System Resting on Soft Clay

Anas Puri, Hary Christady Hardiyatmo, Bambang Suhendro, and Ahmad Rifa'i

***Abstract*—Nailed-slab System is a proposed alternative solution for rigid pavement problem on soft soils. Equivalent modulus of subgrade reaction (*k'*) can be used in designing of nailed-slab system. This modular is the cumulative of modulus of subgrade reaction from plate load test (*k*) and additional modulus of subgrade reaction due to pile installing (Δ*k*). A recent method has used reduction of pile resistance approach in determining Δ*k*. The relative displacement between pile and soils, and reduction of pile resistance has been identified. In fact, determining of reduction of pile resistance is difficult. This paper proposes an approach by considering tolerable settlement of rigid pavement. Validation is carried out with respect to a loading test of nailed-slab models. The models are presented as strip section of rigid pavement. The theory of beams on elastic foundation is used to calculate the slab deflection by using *k'*. Proposed approach can results in deflection prediction close to observed one. In practice, the Nailed-slab System would be constructed by multiple-row piles. Designing this system based on one-pile row analysis will give more safety design and will consume less time.**

***Keywords*—soft clay, Nailed-slab System, friction pile, tolerable settlement, modulus of subgrade reaction.**

I. Introduction

THE Nailed-slab System first emerged from the idea of changing the shell of chicken foot foundation with short-friction piles in order to gain the efficiency of construction implementation [1]. This system was proposed as reinforcement of concrete rigid pavement on soft soil by using thin pile cap (thickness about 12 cm to 25 cm) which can reduce the weight of the structure and will be beneficial for soft soils [2]. Short micropiles were installed under the pavement slab. Micropiles have 12 cm – 20 cm in diameter, 1 m – 2 m length, and 1 m – 2 m pile spacing. Slab has double functions: as pavement structures and all at once as pile cap. Experimental modeling and analytical study have been done for soft soils ([2]; [1]; [3]; [4]; [5]; [6]; [7]; [8]; and [9]).

Deflection analysis of a nailed-slab by using equivalent modulus of subgrade reaction has been done by Hardiyatmo ([3], and [4]). This modular is the cumulative of modulus of subgrade reaction from plate load test (k) and additional modulus of subgrade reaction due to pile installing (Δk). Reduction of pile resistance is one of aspects that need to be considered in determining Δk. It is included in the relative displacement between the pile and soil. In fact, determining of the reduction of pile resistance for design purpose is difficult. Furthermore, this paper proposes an approach where pile friction resistance is fully mobilized and the tolerable settlement is considered. It is aimed at more ease in designing the Nailed-slab System.

II. Additional Modulus of Subgrade Reaction (Δk) Based on Tolerable Settlement

A. Modulus of Subgrade Reaction

The coefficient of subgrade reaction is one of the parameters that can be used in slab deflection analysis. The coefficient of vertical subgrade reaction (k_v) is defined by foundation pressure (q) divided by appropriate settlement (δ) of soil under foundation, and it is expressed by Equation (1). Multiplication of this coefficient by slab width gives the modulus of subgrade reaction.

$$k_v = \frac{q}{\delta} \tag{1}$$

So, subgrade reaction is the distribution of soil reaction under raft foundation against the load of the foundation. Soil reaction is distributed non-linearly when foundation working load is uniform. For clay soil, the distribution of soil reaction has a convex shaped, which reaches maximum reaction near the edge of the foundation and is smallest at the center of the foundation.

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In the nailed-slab system, the analytical approach in determining equivalent modulus of subgrade reaction (k') is given as follows ([4], [6], [9]):

$$k' = k + \Delta k \quad (2)$$

Where

k : modulus of subgrade reaction from plate load test (kN/m^3)

Δk : additional modulus of subgrade reaction due to pile installing (kN/m^3)

Considering the single pile with an attached circular plate resting on soil, Hardiyatmo [4] proposed (3) in determining the Δk value.

$$\Delta k = \frac{\delta_0 A_s}{\delta^2 s^2}\left(a_d c_u + p_0 K_d \tan\varphi_d\right) \quad (3)$$

Where

δ_0 : relative displacement between pile and soil (m)

δ : deflection of surface of plate (m)

A_s : surface area of pile shaft (m^2)

s : pile spacing (m)

a_d : adhesion factor (non-dimensional)

c_u : undrained cohesion (kN/m^2)

p_o': average effective over burden pressure along of pile (kN/m^2)

K_d : coefficient of lateral earth pressure in pile surroundings (non-dimensional)

ϕ_d : soil internal friction angle (degree)

The relation between δ_0/δ and slab deflection from pile model with a 4 cm diameter is also given by Hardiyatmo [4]. His results show that prediction of deflection tends to be over estimate (reached 35%) on the center loading, and under estimate (reached 14%) on edge loading. According to Puri et.al. [9], generally deflection prediction was slightly under estimate compared with observed deflection.

The derivation of the equation in determining additional modulus of subgrade reaction due to pile installing (Δk) by considering tolerable settlement approach is described in the next section.

B. Additional Modulus of Subgrade Reaction (Δk) based on Tolerable Settlement

Nailed-slab Resting on General Soils

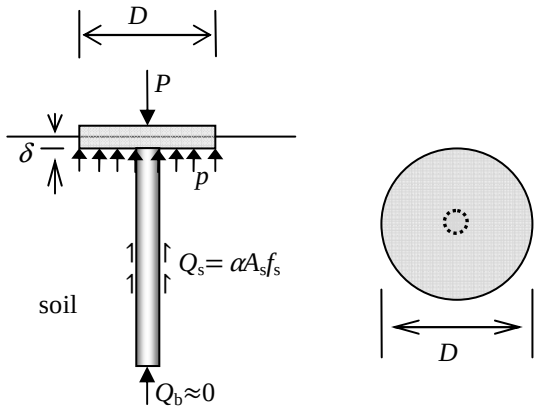
The reaction under individual nailed-slab is shown in Fig. 1. The contribution by an end bearing pile (Q_b) can be ommitted according to the smallest dimension of the pile used in Nailed-slab System [4] or when the system resting on soft soils. So, the ultimate carrying capacity of the pile then becomes

$$Q_u = Q_s \quad (4)$$

Where

Q_u : ultimate carrying capacity of pile (kN)

Q_s : ultimate shaft resistance of pile (kN)



a) Side view b) Plan view

Fig. 1. Soil bearing pressure under individual nailed-slab [4].

Ultimate shaft resistance of pile is expressed by

$$Q_s = A_s f_s \quad (5)$$

Where

A_s : surface area of pile shaft (m^2)

f_s : ultimate unit friction resistance of pile shaft (kN/m^2)

Ultimate unit friction resistance of the pile shaft can be expressed by the classical equation:

$$f_s = a_d c_u + p_0' K_d tg\phi_d \quad (6)$$

Where

a_d : adhesion factor (non-dimensional)

c_u : undrained cohesion (kN/m^2)

p_o': average effective over burden pressure along of pile (kN/m^2)

K_d: coefficient of lateral earth pressure in pile surroundings (non-dimensional)

ϕ_d : soil internal friction angle (degree)

Displacement on the loading plate differes due to the relative displacement between the soil and the pile (δ_0). Since soils under the loaded plate is moved together with pile moving down, the relative displacement between the soil and the pile is always smaller than the displacement on the loading plate surface (δ_s). So, the ultimate unit friction resistance of the pile shaft has not been fully mobilised yet [4]. The displacement factor [4] or namely the reduction factor for pile resistance (α) should be considered. Therefore

$$Q_s = \alpha A_s f_s \quad (7)$$

The mobilised unit pile shaft resistance can be expressed as [4]

$$R_s = \alpha f_s \quad (8)$$

The pile friction modulus is defined as [4]

$$k_t = \frac{R_s}{\delta_p} \quad (9)$$

Equation (9) can be expressed as

$$k_t = \beta R_s \quad (10)$$

Where

R_s : mobilized unit friction on the pile shaft (kN/m^2)
k_t : pile friction modulus (kN/m^3)
β : factor of pile unit resistance (m^{-1}), defined as $\beta = 1/\delta_p$
δ_p : displacement of pile head (m)

The additional subgrade modulus under the plate due to pile installation is expressed as the contribution of pile resistance. It can be determined using the equation

$$\Delta k A_{ps} = k_t A_s \quad (11)$$

Where

A_{ps} : area of plate zone which supported by single pile (m^2)
$A_{ps} = s^2$ according to [4] for nailed-slab
s : pile spacing (m)
A_s: surface area of pile shaft (m^2)

Substituting (10) into (11), we have

$$\Delta k = \frac{\beta R_S A_S}{A_{ps}} \quad (12)$$

Subtituting (8) into (12), we obtain

$$\Delta k = \frac{\beta \alpha f_S A_S}{A_{ps}} \quad (13)$$

For designing necessity, it is difficult to determine the reduction factor of pile resistance (α). According to [4], this factor is defined as

$$\alpha = \delta_0/\delta_s \quad (14)$$

The mobilised unit pile shaft resistance is still in the elastic zone. According to the rule of thumb in determining the allowable pile bearing capacity which is usually taken at 1/2.5 of ultimate capacity, furthermore, the reduction factor of pile resistance is approached by 1/2.5. Another point that should be considered is tolerable settlement of rigid pavement slab (δ_a). Damages of rigid pavement slab are usually caused by differential settlement rather than total settlement. For rigid pavements, the general guide is that D/T^2 should be less than 2.5E-4/m where D is the depth of differential settlement and T is the half wave length of settlement [10]. Allowable strain in concrete can also be considered to tolerate the maximum differential settlement of the slab. The simple relation ($\varepsilon = t/R$) can be used to assess the maximum strain in a pavement due to curvature where t = thickness of pavement and R = radius of curvature [10].

By taken α = 1/2.5 and assuming the displacement of pile head equals to the tolerable settlement of rigid pavement slab ($\delta_p = \delta_a$; then $\beta = 1/\delta_a$), therefore, (13) can be written as

$$\Delta k = \frac{f_S A_S}{2.5\delta_a A_{ps}} = \frac{0.4 f_S A_S}{\delta_a A_{ps}} \quad (15)$$

Furthermore, (2) can be written as

$$k' = k + \frac{0.4 f_S A_S}{\delta_a A_{ps}} \quad (16)$$

The value of α = 1/2.5 = 0.4 is very close to δ_0/δ_s from [4] for δ_s more than 2.5 mm, according to the model test.

By subtituting (5) into (15) and (16), we can also obtain (17) and (18) respectively

$$\Delta k = \frac{0.4 Q_S}{\delta_a A_{ps}} \quad (17)$$

$$k' = k + \frac{0.4 Q_S}{\delta_a A_{ps}} \quad (18)$$

The modulus of subgrade reaction from the plate load test (k) is usually taken by using circular plate, and it should be corrected to slab shape of the nailed-slab. Equation (16) or (18) would be a practical approach for determining the equivalent modulus of subgrade reaction in designing the Nailed-slab System.

Nailed-slab Resting on Soft Soils

End bearing resistance is ignored for nailed-slabs on soft soils. Ultimate unit friction resistance of the pile shaft in saturated clay is expressed by

$$f_S = a_d c_u \quad (19)$$

Where

a_d : adhesion factor (non-dimensional)
c_u : undrained cohesion (kN/m^2)

Subtituting (19) into (15)

$$\Delta k = \frac{0.4 a_d c_u A_S}{\delta_a A_{ps}} \quad (20)$$

Subtituting (20) into (2), we obtain

$$k' = k + \frac{0.4 a_d c_u A_S}{\delta_a A_{ps}} \quad (21)$$

For c-ϕ soil, ultimate unit friction resistance of the pile shaft is expressed by (6).

III. ANALYSIS OF DEFLECTION

An attempt was made to calculate the deflections due to the load acting on flexible plate-supported piles by applying the theory of beams on elastic foundation ([3]; [4]; [7]; [9]). For finite length of the beam resting on an elastic foundation due to a single concentrated load at any point, the deflection can be defined as [11]

$$\delta = \frac{P\lambda}{k}\frac{1}{\sinh^2 \lambda l - \sin^2 \lambda l}\{2\cosh \lambda x \cos \lambda x$$
$$(\sinh \lambda l \cos \lambda a \cosh \lambda b - \sin \lambda l \cosh \lambda a$$
$$\cos \lambda b + (\cosh \lambda x \sin \lambda x + \sinh \lambda x \cos \lambda x) \quad (22)$$
$$[\sinh \lambda l\ (\sin \lambda a \cosh \lambda b - \cos \lambda a \sinh \lambda b) +$$
$$\sin \lambda l (\sinh \lambda a \cos \lambda b - \cosh \lambda a \sin \lambda b)]\}$$

Where

P : concentrated load acting on beam (kN)

λ : flexibility of beam; $\lambda = \sqrt[4]{\frac{k}{4EI}}$

k : modulus of subgrade reaction (kN/m^2/m);
$k = k_v B$.

B : width of beam (m)

E : modulus of elasticity of beam (kN/m^2)

I : moment of inertia (m^4)

a and b : distance distinct by Fig. 2.

The k is replaced by k' for analysis of nailed-slab system. Equation (22) is used as given when x is less than the distance a, and x is measured from C. When x is larger than a, a is replaced by b, and x is measured from D.

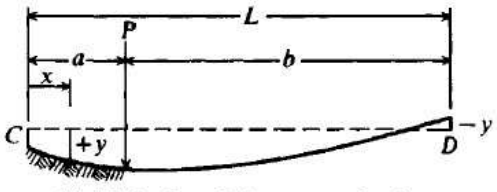


Fig. 2. Beam on elastic foundation with finite length [12].

IV. TESTING INVESTIGATION

The proposed approach will be validated by using data from Puri, et.al. [9] for a nailed-slab without a vertical barrier. The loading test set up is shown in Fig. 3 and models of concrete slabs supported by piles and the photograph of the testing are shown in Fig. 4 and 5 respectively. All models are presented as strip section of the rigid pavement. Soft clay parameters are given in Table 1. Slabs and piles are made by reinforced concrete. Slab reinforcement was wire mesh with 3 mm-wire diameters, and 5 cm × 5 cm meshing. Pile models were reinforced by 3mm-aluminium wire diameter. Model scale for geometry was 1 : 5. Piles and slabs were connected monolithically. Nailed-slab models consist of

a). nailed-slab with one row of piles (consist of 6 piles); 120 cm × 20 cm × 3 cm slab, 20 cm pile spacing (s/d = 5), pile diameter d = 4 cm, pile length L = 40 cm (Fig. 3a).

b). nailed-slab with two rows of piles (consist of 12 piles); 120 cm × 40 cm × 3 cm slab, 20 cm pile spacing (s/d = 5), pile diameter d = 4 cm, pile length L = 40 cm (Fig. 3b). This model was conducted to study the effect of row of pile due to the equivalent modulus of subgrade reaction.

The slabs and piles have the modulus of elasticity E_c = 17,000 MPa. Soft clay has a 15,000 kPa/m modulus of subgrade reaction from plate load test with 30 cm in plate diameter. Lean concrete has a 71,100 kPa/m modulus of subgrade reaction from plate load test with 20 cm in plate diameter. These moduli of subgrade reaction was corrected due to the shape of the slab according to [13], and resulted in 16,250 kPa/m and 51,350 kPa/m for soft clay and lean concrete respectively. For homogenous soft clay, correction due to depth of the foundation is not required.

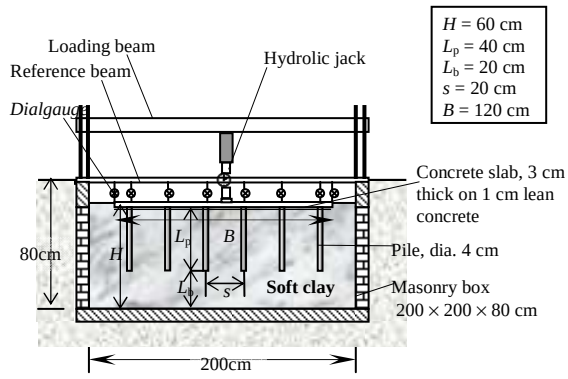


Fig. 3. Schematic set-up of loading test on concrete slab supported by piles [8].

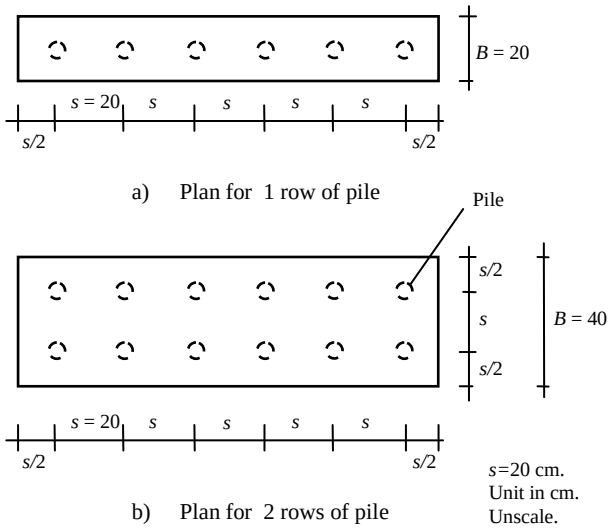


Fig. 4. Plan view of model types.

The steps of testing consist of soil preparation, plate load test on the soil, soil sampling for soil properties test, lean concrete pouring, plate load test for one week age of lean concrete, pile installation by hydraulic jack, slab reinforcement and pouring concrete slab. Then, the surface of the soft soil is covered by plastic sheets and wet cloths which

are sprayed by water twice a day. Loading on the slab is conducted after the slab reaches 28 days of age. Concentrated loadings are applied at the center and edge of slab. The reading of deflection dial gauge is noted when the rate of increase in deflection is less than 0.03 mm/min (or 0.01 in./min).

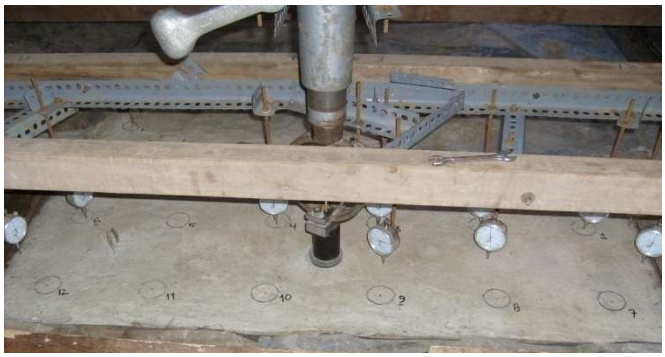


Fig. 5. Photograph of center loading test on nailed-slab with two rows of piles.

TABLE 1
SOFT CLAY PROPERTIES [9]

No.	Parameters	Unit	Value
1	Specific gravity, G_s	-	2.3
2	Atterberg's limits:		
	- Liquid limit, *LL*	%	68.39
	- Plastic limit, *PL*	%	29.55
	- Shrinkage limit, *SL*	%	7.68
	- Plasticity index, *PI*	%	38.84
3	Moisture content, *w*	%	42.4
4	Percentage of fine grains	%	93.85
5	Saturated density, γ_{sat}	kN/m^3	17.0
6	Undrained cohesion, c_u	kN/m^2	21
7	Soil classification: USCS	-	CH

V. RESULTS AND DISCUSSION

A. Loading Test Results

Distribution of deflection along the slab of a nailed-slab system for one row of piles is shown in Fig. 6 and 7 for center loading and edge loading respectively. And distribution of deflection along the slab for two rows of piles is shown in Fig. 8 and 9 for center loading and edge loading respectively. It is concluded that the maximum deflection of the slab for edge loading is 4 times the maximum deflection of center loading. Generally, there is no significant uplift of the slab end. The capability of the nailed-slab system is higher due to center loading than edge loading. The two-pile row of nailed-slab system has lower deflection than one row-pile system. It is caused by increase in stiffness of system due to pile installation under the slab and the increase of slab area which bears the load.

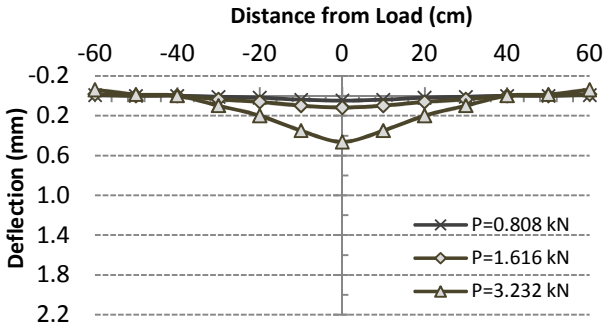


Fig. 6. Distribution of deflection along slab of nailed-slab system for one row of pile with center loading.

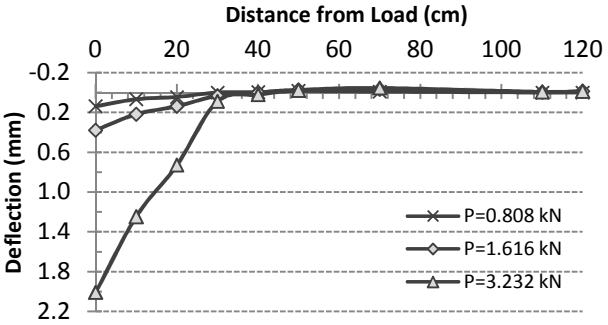


Fig. 7. Distribution of deflection along slab of nailed-slab system for one row of pile with edge loading.

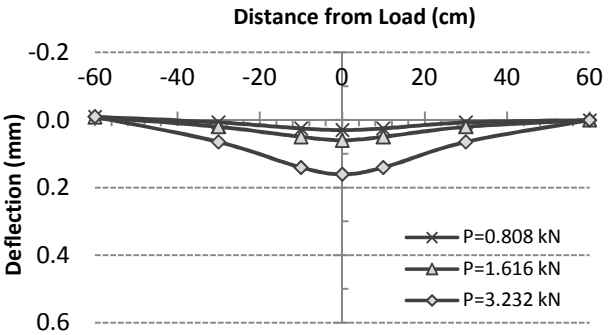


Fig. 8. Distribution of deflection along slab of nailed-slab system for two rows of pile with center loading.

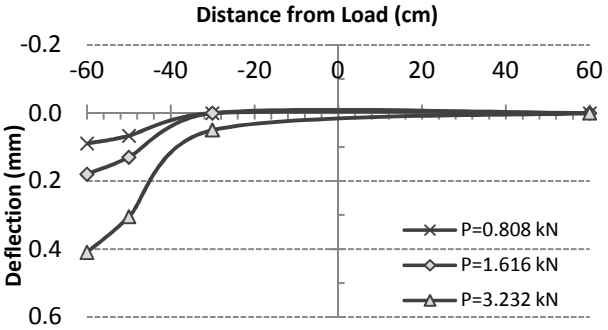


Fig. 9. Distribution of deflection along slab of nailed-slab system for two rows of pile with edge loading.

B. *Additional Modulus of Subgrade Reaction*

Additional modulus of subgrade reaction due to one row pile installation is calculated by (19), (15) and (16), and results are shown in Table 2. The tolerable settlements (δ_a) were taken as observed maximum deflections. Modulus subgrade reaction for lean concrete is 51,350 kPa/m. Equivalent modulus of subgrade reactions are included in Table 2. It is shown that *k*' and Δk are lower for edge loading.

The *k*' values in Table 2 are used to calculate nailed-slab deflection. Calculation results are shown in Fig. 10 and 11 for center loading and edge loading respectively. Good results are obtained in the sense that the calculated settlement is in good agreement with observation. P-δ graph is shown in Fig. 12 for all type of loadings. Calculated settlement tends to be in good agreement with observed settlement, although for edge loading it tends to be over-estimated (Fig. 12). Similar results are also found by [4] and [9].

TABLE 2
EQUIVALENT MODULUS OF SUBGRADE REACTION FOR ONE-ROW PILE SYSTEM

No.	Loading Type	Loads, *P* (kN)	Observed δ_a (mm)	Δk (kPa/m)	*k'* (kPa/m)
1	Center	3.232	0.47	17,060	68,410
		1.616	0.12	60,455	111,805
		0.808	0.05	145,093	196,443
2	Edge	3.232	2.01	3,989	55,339
		1.616	0.38	19,091	70,441
		0.808	0.14	51,819	103,169

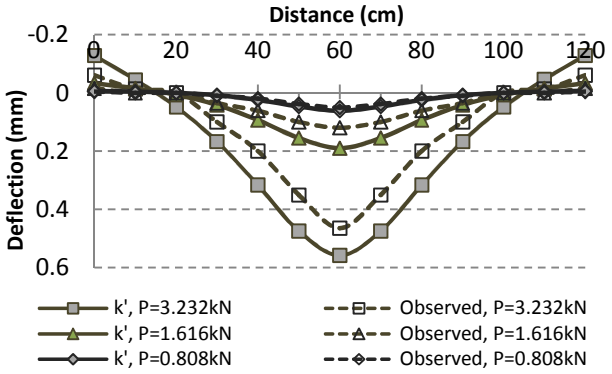


Fig. 10. Distribution of deflection of one-row pile nailed-slab for center loadings.

C. *Effects of Lean Concrete (LC)*

The maximum deflection observed is used as tolerable settlement in the determining $\Delta k'$. Two kind of analysis was considered as follows:

1. Nailed-slab with lean concrete (LC). The *k*' is calculated on Table 2. Value of *k'* is based on subgrade reaction modulus of lean concrete.
2. Nailed-slabs without considering lean concrete. Value of *k'* which is based on soft clay subgrade reaction modulus is given in Table 3.

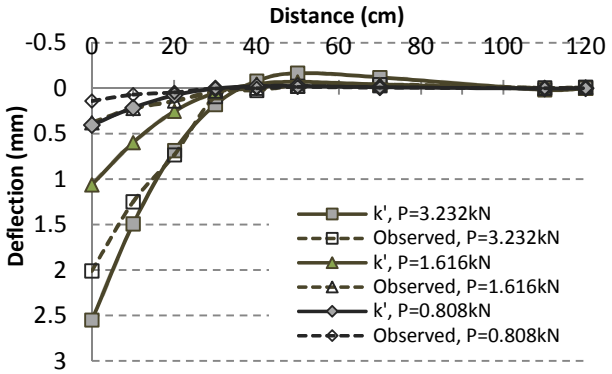


Fig. 11. Distribution of deflection of one-row pile nailed-slab for edge loadings.

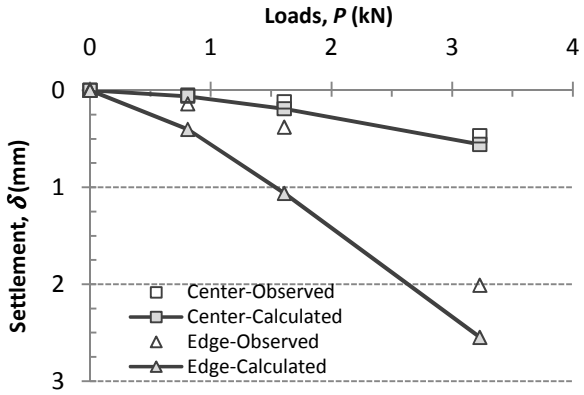


Fig. 12. P-δ relationship on loading point between calculation and observation of one-row pile nailed-slab.

TABLE 3
EQUIVALENT MODULUS OF SUBGRADE REACTION BASED ON *k* OF SOIL (LOAD *P* = 3.232 kN)

Loading Types	*k* (kPa/m)	Observed δ_a (mm)	Δk (kPa/m)	*k'* (kPa/m)
Center	16,250	0.47	17,060	33,310
Edge	16,250	2.01	3,989	20,239

Analysis and observation of the deflection distribution along the slab are shown in Fig. 13 for center loading and Fig. 14 for edge loading. It appears that analytical of nailed-slabs with lean concrete results in good agreement with observed deflection. Otherwise, nailed-slab without considering lean concrete tends to be overestimate 112% and 170% for center load and edge load respectively. This indicates that the count of deflection of the Nailed-slab System on the basis of soil modulus of subgrade reaction (regardless of *k* of lean concrete) has more safety. The contribution of lean concrete stiffness is neglected in design, and then implemented in practice.

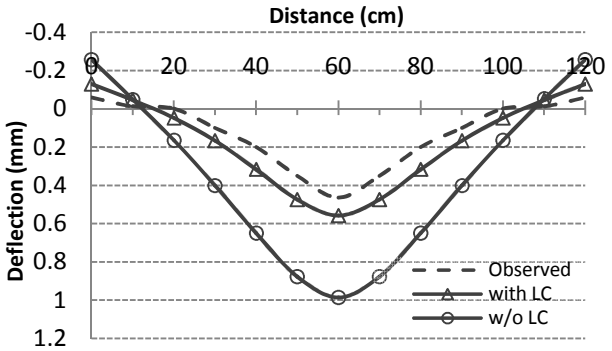


Fig. 13. Deflection distribution along slab for center loading Q = 3.23 kN considering nailed-slab with/without LC.

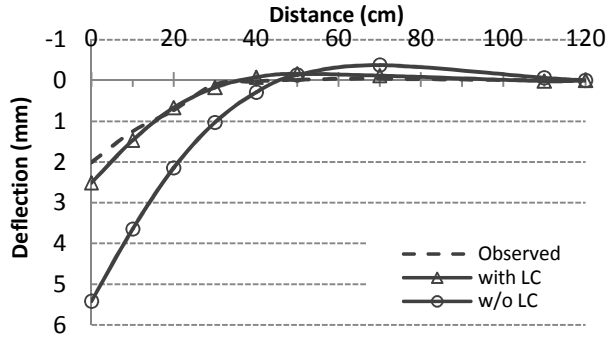


Fig. 14. Deflection distribution along slab for edge loading Q = 3.23 kN considering nailed-slab with/without LC.

D. Effects of Number of Pile Rows

Two kinds of calculations are conducted as follows,

1. The maximum deflection observed from two-rows nailed-slab is used as tolerable settlement in the determining $\Delta k'$. Table 4 shows equivalent modulus of subgrade reaction based on observed deflection.
2. By using defined tolerable settlement. The equivalent modulus of subgrade reaction based on defined tolerable settlement is shown in Table 5. Tolerable settlement is 0.5 mm for center load and 2.0 mm for edge load. All tolerable settlements are used for all loading works.

TABLE 4
EQUIVALENT MODULUS OF SUBGRADE REACTION
FOR 2-PILE ROW OF NAILED-SLAB SYSTEM
BASED ON OBSERVED DEFLECTION

No.	Loading Type	Loads, P (kN)	Observed δ_a (mm)	Δk (kPa/m)	k' (kPa/m)
1	Center	6.464	0.38	21,101	46,776
		3.232	0.16	50,114	75,789
		1.616	0.06	133,638	159,313
2	Edge	3.232	0.41	19,557	45,232
		1.616	0.18	44,546	70,221

Additional modulus of subgrade reaction is considered not changed even though the number of rows of piles is increased. It is based therefore on no change in the pile length and the pile spacing. Therefore, the change of equivalent modulus of subgrade reaction (k') is due to changes in the modulus of subgrade reaction of the lean concrete (k). The lean concrete subgrade reaction modulus is changed as a result of changes in the width of the slab, where the width of the slab for 2 rows of piles is 40 cm. After correction to the width of the slab in two-row pile nailed-slab, the k' for lean concrete becomes 25,675 kPa/m.

TABLE 5
EQUIVALENT MODULUS OF SUBGRADE REACTION
FOR 2-PILE ROW OF NAILED-SLAB SYSTEM
BASED ON DEFINED TOLERABLE SETTLEMENT

No.	Loading Types	k (kPa/m)	Defined δ_a (mm)	Δk (kPa/m)	k' (kPa/m)
1	Sentris	25,675	0.5	16,037	41,712
2	Pinggir	25,675	2	4,009	29,684

Analysis results based on observed settlement and observation of the deflection distribution along the slab are shown in Fig. 15 for centric load and Fig. 16 for the edge loading. It appears that all analytical results over estimate the entire loading. This indicates that the analysis of deflection of the Nailed-slab System on the basis of a one pile row to be safer when applied to Nailed-slab System consisting of more than one pile row. It is caused by pile group resistance higher and increase in slab stiffness according to piles installation ([8], [9]).

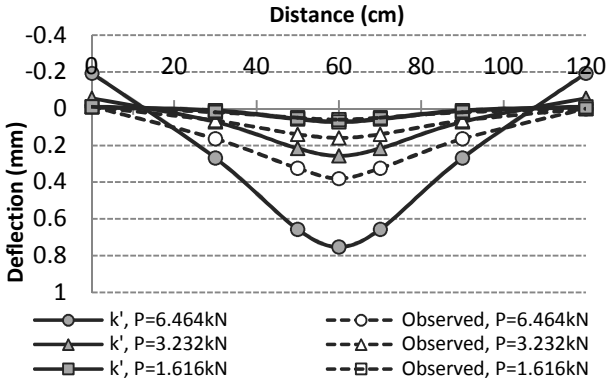


Fig. 15. Deflection distribution along slab for center loading of two-pile row nailed-slab system. Δk based on observed deflection.

Fig. 17 to 19 show the results of analysis of deflection where Δk based on defined tolerable settlement. Fig. 17 to 19 are intended for different load types and intensities. All deflection results are shown very over-estimated and more over-estimated than Δk based on observed deflection. It is proved again that the analysis of deflection of the Nailed-slab System on the basis of a one-pile row is safer when applied to Nailed-slab System consisting of more than one pile row. Using defined tolerable settlements tend to put the design in safer zone.

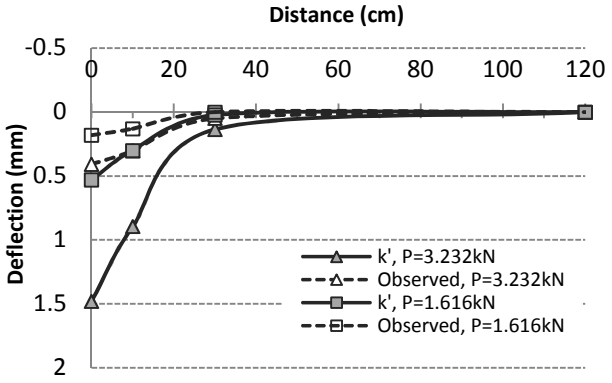


Fig. 16. Deflection distribution along slab for edge loading of two-pile row nailed-slab system. Δk based on observed deflection.

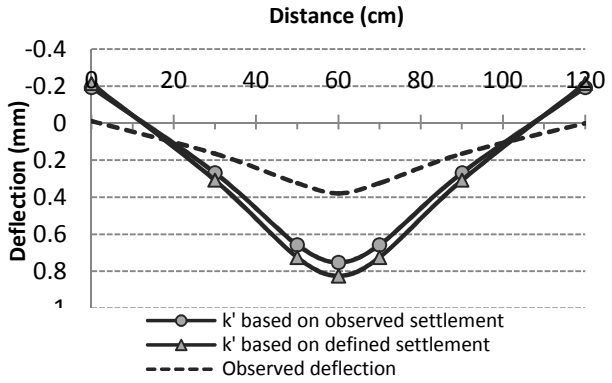


Fig. 17. Deflection distribution along slab for center loading (P=6.646 kN) of two-pile row nailed-slab system. Δk based on defined tolerable settlement.

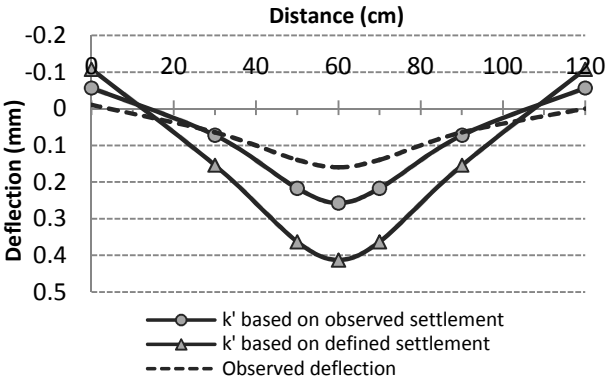


Fig. 18. Deflection distribution along slab for center loading (P=3.323 kN) of two-pile row nailed-slab system. Δk based on defined tolerable settlement.

VI. CONCLUSION

The observations and analysis on the deflection of the Nailed-slab System model have been performed. Additional subgrade reaction modulus (Δk) caused by the installation of the pile can be approximated by means of identifying the tolerable settlement. The displacement of pile head has been assumed to be equal to the slab deflection. Furthermore, for designing purposes, slab deflection is approached by making use of a tolerable settlement (δ_a). It can be noted that the increase in δ_a will decrease Δk.

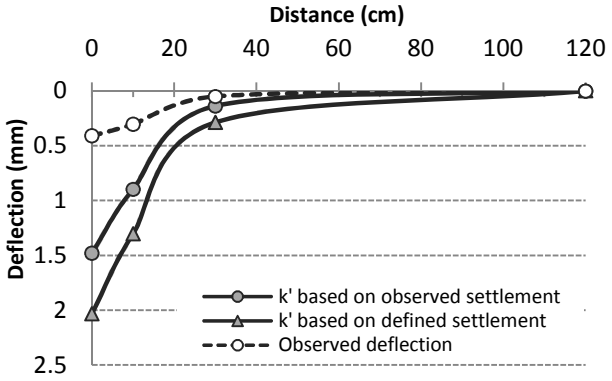


Fig. 19. Deflection distribution along slab for edge loading (P=3.323 kN) of 2-pile row nailed-slab system. Δk based on defined tolerable settlement.

Analysis of beams on elastic foundation using an equivalent modulus of subgrade reaction (k') which is a cumulative of the subgrade reaction modulus of the plate load test and Δk of the proposed approach, resulting in deflection fines in good agreement with observed deflections. Neglecting the lean concrete in designing the Nailed-slab System would give safer design.

In practice, the Nailed-slab System would be constructed by multiple row piles. Designing of the Nailed-slab System based on an analysis of the one row pile will produce a safe design. It is caused by higher pile group resistance and increases in slab stiffness according to multiple-row of piles installation. Besides, designing process will be less time consuming.

Further research can be conducted for different pile configuration pattern and the behavior of prototype of the Nailed-slab system.

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Total	329	94	325	

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IJCEE-IJENS [2009-2012]	Total Articles Published	Total Articles Cited	Citation Count	Citations per Paper

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IJCEE-IJENS Vol: 10 Issue: 04	8	5	11	4+3+2+1+1
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B = 178 = The total number of citable items published by that journal in 2009-2012.

IJCEE-IJENS 2011 IMPACT FACTOR = A/B = 232/178 = 1.3033

IJVIPNS-IJENS [2009-2012]	Total Articles Published	Total Articles Cited	Citation Count	Citations per Paper
IJVIPNS-IJENS Vol: 09 Issue: 09	8	5	13	4+3+3+2+1
IJVIPNS-IJENS Vol: 09 Issue: 10	8	4	13	6+4+2+1
IJVIPNS-IJENS Vol: 10 Issue: 01	3	3	26	11+10+5
IJVIPNS-IJENS Vol: 10 Issue: 02	7	1	4	4
IJVIPNS-IJENS Vol: 10 Issue: 03	3	0	0	0
IJVIPNS-IJENS Vol: 10 Issue: 04	3	0	0	0
IJVIPNS-IJENS Vol: 10 Issue: 05	1	0	0	0
IJVIPNS-IJENS Vol: 10 Issue: 06	2	2	4	3+1
IJVIPNS-IJENS Vol: 11 Issue: 01	6	3	11	6+3+2
IJVIPNS-IJENS Vol: 11 Issue: 02	2	1	5	5
IJVIPNS-IJENS Vol: 11 Issue: 03	7	4	19	8+5+3+3
IJVIPNS-IJENS Vol: 11 Issue: 04	3	2	10	8+1
IJVIPNS-IJENS Vol: 11 Issue: 05	4	1	3	3
IJVIPNS-IJENS Vol: 11 Issue: 06	3	1	1	1
IJVIPNS-IJENS Vol: 12 Issue: 01	4	3	11	6+4+1
IJVIPNS-IJENS Vol: 12 Issue: 02	4	0	0	0
IJVIPNS-IJENS Vol: 12 Issue: 03	3	0	0	0
IJVIPNS-IJENS Vol: 12 Issue: 04	4	2	12	8+4
IJVIPNS-IJENS Vol: 12 Issue: 05	5	0	0	0
IJVIPNS-IJENS Vol: 12 Issue: 06	5	0	0	0
Total	85	32	132	

A = 132 = The number of times articles published in 2009-2012 were cited during 2013.

B = 85 = The total number of citable items published by that journal in 2009-2012.

IJVIPNS-IJENS 2011 IMPACT FACTOR = A/B = 132/85 = 1.5529

IJMME-IJENS [2009-2012]	Total Articles Published	Total Articles Cited	Citation Count	Citations per Paper
IJMME-IJENS Vol: 09 Issue: 09	4	1	3	3
IJMME-IJENS Vol: 09 Issue: 10	6	6	38	18+6+5+4+4+1
IJMME-IJENS Vol: 10 Issue: 01	4	3	8	5+2+1
IJMME-IJENS Vol: 10 Issue: 02	3	3	5	3+1+1

IJMME-IJENS Vol: 10 Issue: 03	8	6	42	20+11+5+3+2+1
IJMME-IJENS Vol: 10 Issue: 04	7	3	6	4+1+1
IJMME-IJENS Vol: 10 Issue: 05	1	1	9	9
IJMME-IJENS Vol: 10 Issue: 06	3	1	1	1
IJMME-IJENS Vol: 11 Issue: 01	6	3	30	26+2+2
IJMME-IJENS Vol: 11 Issue: 02	2	0	0	0
IJMME-IJENS Vol: 11 Issue: 03	5	2	3	2+1
IJMME-IJENS Vol: 11 Issue: 04	12	4	7	3+2+2
IJMME-IJENS Vol: 11 Issue: 05	3	1	2	2
IJMME-IJENS Vol: 11 Issue: 06	4	1	1	1
IJMME-IJENS Vol: 12 Issue: 01	2	2	2	1+1
IJMME-IJENS Vol: 12 Issue: 02	2	2	2	1+1
IJMME-IJENS Vol: 12 Issue: 03	3	0	0	0
IJMME-IJENS Vol: 12 Issue: 04	11	1	2	2
IJMME-IJENS Vol: 12 Issue: 05	10	2	3	2+1
IJMME-IJENS Vol: 12 Issue: 06	9	3	3	1+1+1
Total	105	45	167	

A = 167 = The number of times articles published in 2009-2012 were cited during 2013.

B = 105 = The total number of citable items published by that journal in 2009-2012.

IJMME-IJENS 2011 IMPACT FACTOR = A/B = 167/105 = 1.504

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Most Cited Articles (IJET-IJENS) [2009-2013]	**Vol, Issue, Publication Date**	**Authors**	**Citing Count**	**Citing Articles**
Water Quality Monitoring System Using Zigbee Based Wireless Sensor Network	**IJET-IJENS Vol: 09 Issue: 10 10th Dec, 2009**	**Zulhani Rasin, Mohd Rizal Abdullah**	**22**	1. Hydraulic pressure distribution for pipeline networks by wireless sensor networks 2. Energy harvesting for Wireless Sensors from electromagnetic fields around overhead power lines 3. Building an HMI and demo application of WSN-based industrial control systems 4. A Single-Chip Solution for Interfacing Transducers to Sensor Networks Using FPGAs 5. Water Quality Monitoring System based on WSN 6. Performance analysis of ID-based authentication On Zigbee transceiver 7. CPWS: An efficient routing protocol for RGB sensor-based fish pond monitoring system 8. A reliability evaluation of wireless sensor network simulator: Simulation vs. testbed 9. Wireless Sensor Networks for Water Monitoring 10. POWER AWARE HETEROGENEOUS WIRELESS SENSOR NETWORK 11. Online Communication of Critical Parameters in Powerplant Using ZIGBEE 12. Ubiquitous sensor network for development of climate change monitoring system based on solar power supply 13. Wireless Sensor Network application for water quality monitoring in India 14. Towards Smart Egypt–The Role of Large Scale WSNs 15. Automated wireless greenhouse management system : a thesis presented in partial fulfillment of the requirements for the degree of Master of Engineering in Electronics and Computer Systems 16. PATIENT MONITORING SYSTEM USING WIRELESS SENSOR NETWORK 17. Design of a Low-cost Underwater Wireless Sensor Network for Water Quality Monitoring. 18. ZIGBEE BASED PARAMETER MONITORING AND CONTROLLING SYSTEM FOR INDUCTION MACHINE 19. Application of wireless sensor networks for agricultural parameter control 20. Implementing ZigBee Protocol as Assignments in Teaching Embedded Systems 21. A Low Cost Design & Monitoring Of Automatic Irrigation System Based On Zigbee Technology

				22. ESiT-Uma Estrutura Tecnológica para Informação Ambiental via Dados Abertos, Painéis Dinâmicos e Redes Sociais das Coisas
Remote monitoring in agricultural greenhouse using wireless sensor and short message service (SMS)	IJET-IJENS Vol: 09 Issue: 09 10th Oct, 2009	Izzat Din Abdul Aziz, Mohd Hilmi Hasan, Mohd Jimmy Ismail, Mazlina Mehat and Nazleeni Samiha Haroon	20	1. Monitoring Water Level in Agriculture Using Sensor Networks 2. GPRS based data acquisition and analysis system with mobile phone control 3. SCADA element solutions using Ethernet and mobile phone network 4. A Wi-Fi Based Smart Wireless Sensor Network for an Agricultural Environment 5. Research Paper on Drip Irrigation Management using wireless sensors 6. Remote Monitoring Using Wireless Cellular Networks 7. Master of Engineering 8. Wireless Sensor Based Remote Monitoring System for Agriculture Using ZigBee and GPS 9. Design of GSM Based Embedded System for Irrigation. 10. for an Agricultural Environment 11. WaterLady: A Case Study for Connecting Physical Devices into Social Networks 12. Wireless Monitoring using cellular Networks 13. A Multi-Purpose Vision-Equipped-Remotely-Operable Rig for Hydro-Units Monitoring 14. Autonomous wireless sensor network for greenhouse environmental conditions monitoring 15. Virtual Instrumentation with Mobile Device Control for Methane Concentration Measurements 16. A WiFi based smart wireless sensor network for monitoring an agricultural environment 17. A Review on Smart Sensors Based Monitoring System for Agriculture 18. Sensor Technology and Its use in Drip Irrigation Management 19. Desempenho de rede de sensores sem fio em casa de vegetação 20. Performance of wireless sensor network in a greenhouse
Fixed-bed column study for Cu (II) removal from aqueous solutions using rice husk based activated carbon	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	Nasehir Khan E M Yahaya, Ismail Abustan, Muhamad Faizal Pakir Mohamed Latiff, Olugbenga Solomon Bello, Mohd Azmier Ahmad	20	1. Rice husk and its ash as low-cost adsorbents in water and wastewater treatment 2. Fixed bed Column Adsorption of Cu (II) onto Maize Tassel-PVA Beads. 3. Adsorption equilibrium of malachite green dye onto rubber seed coat based activated carbon 4. Water treatment by adsorption columns: Evaluation at ground level 5. Fixed-bed column studies on a modified chitosan hydrogel for detoxification of aqueous solutions from copper (II) 6. Metal organic frameworks as adsorbents for dye adsorption: overview, prospects and future challenges 7. Fixed bed adsorption studies of Rhodamine B dye using oil palm empty fruits bunch activated carbon 8. Phosphate removal from water using an iron oxide impregnated strong base anion exchange resin 9. Removal of reactive yellow dye by adsorption onto activated carbon using simulated wastewater 10. Performance of ozone treated rice husk carbon (OTRHC) for continuous adsorption of Cr (VI) ions from synthetic effluent 11. Treatment of electroplating rinsewater by hybrid ion exchange and electrochemical techniques 12. Adsorption of Copper (II) From Aqueous Medium In Fixed-Bed Column By Kenaf Fibres 13. Adsorptive capacity of polyacrylonitrile modified with triethylenetetramine for removal of copper and cadmium ions from aqueous solutions 14. Biosorption of Pb (II) and Cr (III) from aqueous solutions: breakthrough curves and modeling studies 15. Removal of Polyphenols from Olive Mill Wastewater using Activated Olive Stones 16. Fixed bed Column Adsorption of Cu (II) onto Maize Tassel-PVA Beads 17. Performance of Fe-loaded chitosan carbonized rice husk beads (Fe-CCRB) for continuous adsorption of metal ions from industrial effluents 18. Modelling of phosphorus removal by ion-exchange resin (Purolite FerrIX A33E) in fixed-bed column experiments 19. Equilibrium, Kinetics and Breakthrough Studies for Adsorption of Cr (VI) on Chitosan

				20. Column Adsorption Of Methylene Blue Onto Microwave-Assisted Zinc Chloride Activated Palm Kernel Shell
Pitch angle control of variable low rated speed wind turbine using fuzzy logic controller	IJET-IJENS Vol: 10 Issue: 05 10th Aug, 2010	A. Musyafa, A. Harika, I. M. Y. Negara, I. Roban	13	1. Pitch angle effect for horizontal axis river current turbine 2. RBF neural network based PI pitch controller for a class of 5-MW wind turbines using particle swarm optimization algorithm 3. Fuzzy logic control for a small pitch controlled wind turbine 4. IMPLEMENTATAION OF PITCH ANGLE WIND TURBINE POSISION FOR MAXIMUM POWER PRODUCTION 5. COMPARATIVE ANALYSIS OF SMALL-SCALE WIND TURBINE DESIGN FOR THE LOW RATE WIND SPEED 6. Modelling and control of a pitch controlled wind turbine experiment workstation 7. Wind-Electric Power Potential Assessment for Three Locations in East Java-Indonesia 8. Power Management System for Load Banks Supplied by Pitch Controlled Wind Turbine System 9. DEVELOPMENT OF BUCK CONVERTER BASED FUZZY LOGIC CONTROL IN SMALL SCALE WIND TURBINE SYSTEM IMPLEMENTED IN EAST-JAVA 10. New, Simple Blade-Pitch Control Mechanism for Small-Size, Horizontal-Axis Wind Turbines 11. Design Optimal of Adaptive Control and Fuzzy Logic Control on Torque-Shaft Small Scale Wind Turbine 12. Logic Based Power Management System for Pitch Controlled Wind Turbine 13. A wind Turbine for low rated wind speed region in East Java
Review on hydrogen production technologies in Malaysia	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Z. Khan, S. Yusup, M. M. Ahmad, V. S. Chok, Y. Uemura, K. M. Sabil	11	1. Biomass steam gasification with in-situ CO2 capture for enriched hydrogen gas production: a reaction kinetics modelling approach 2. Effect of process parameters on hydrogen production and efficiency in biomass gasification using modelling approach 3. Kinetic Study on Palm Oil Waste Decomposition 4. Optimization approach for kinetics parameters determination for oil palm waste steam gasification with in-situ CO< inf> 2 capture for hydrogen production 5. Potential Development of Hydrogen Production from Biomass in Malaysia: A Brief Perspective 6. Biomass Gasification using Modelling Approach 7. Renewable hydrogen economy in Asia–Opportunities and challenges: An overview 8. Hydrothermal Gasification of Palm Shell Biomass for Synthesis of Hydrogen Fuel 9. Economic analysis of a combined production of hydrogen-energy from empty fruit bunches 10. A. Inayat, MM Ahmad, MI Abdul Mutalib and S. Yusup 11. DESCOMPOSICIÓN DE METANO CON CATALIZADORES DE Ni, Fe, PROMOVIDOS CON Pd Y SOPORTADOS EN CARBÓN
Effect of preparation conditions of activated carbon prepared from rice husk by ZnCl2 activation for removal of Cu (II) from aqueous solution	IJET-IJENS Vol: 10 Issue: 06 10th Dec, 2010	Nasehir Khan E M Yahaya, Muhamad Faizal Pakir Mohamed Latiff, Ismail Abustan, Mohd Azmier Ahmad	10	1. Preparation of Activated Carbon From Olive Stone Waste: Optimization Study on the Removal of Cu2+, Cd2+, Ni2+, Pb2+, Fe2+, and Zn2+ From Aqueous Solution … 2. Kinetics and equilibrium adsorption of iron (II), lead (II), and copper (II) onto activated carbon prepared from olive stone waste 3. Microwave irradiated and thermally heated olive stone activated carbon for nickel adsorption from synthetic wastewater: a comparative study 4. Comparison of activated carbon prepared from olive stones by microwave and conventional heating for iron (II), lead (II), and copper (II) removal from synthetic … 5. Metal organic frameworks as adsorbents for dye adsorption: overview, prospects and future challenges 6. Beneficiation of Pyrolitic Carbon Black 7. Production of activated carbon from local raw materials using physical and chemical preparation methods. 8. Comparative studies on the olive stone activated carbon adsorption of Zn2+, Ni2+, and Cd2+ from synthetic wastewater 9. Fe (III) removal by activated carbon produced from Egyptian rice straw by chemical activation 10. A review on economically adsorbents on heavy metals removal in water and wastewater

Industrial pollution and implication on source of water supply in Kano, Nigeria	IJET-IJENS Vol: 10 Issue: 01 10th Feb, 2010	Salisu Dan'azumi, Mustapha Hassan Bichi	9	1. Environmental impact of leachate pollution on groundwater supplies in Akure, Nigeria 2. Effects of industrial waste disposal on the surface water quality of U-tapao River, Thailand 3. Effects of Sublethal Copper Concentrations on Gills of White Shrimp (Litopenaeus vannamei, Boone 1931) 4. Heavy Metal Pollution in Surface and Ground Waters Used for Irrigation along River Tatsawarki in the Kano, Nigeria 5. Identification of source of heavy metal contamination in a site-a case study 6. Effect of Extraction Method on the Antimicrobial Activity of Moringa Oleifera Seeds Extract 7. Heavy Metals in Soils Used For Irrigation of Crops along River Tatsawarki in Kano, Nigeria. 8. Metal oxides for environmental friendly applications 9. Effect of copper on survival, osmoregulation, and gill structures of freshwater prawn (Macrobrachium rosenbergii, de Man) at different development stages
Application of Taguchi Method in Optimization of Gate Oxide and Silicide Thickness for 45nm nMOS Device	IJET-IJENS Vol: 09 Issue: 10 15th Dec, 2009	Fauziyah Salehuddin, Ibrahim Ahmad, Fazrena Azlee Hamid, Azami Zaharim	8	1. Cobalt silicide and titanium silicide effects on nano devices 2. Influence of HALO and Source/Drain Implantation Variations on Threshold Voltage in 45nm CMOS Technology 3. Performance Optimization of Optical Y-Junction on Silicon-on-Insulator for Mach-Zehnder Interferometer Applications 4. Optimizing 35nm NMOS devices V< inf> TH and I< inf> LEAK by controlling active area and halo implantation dosage 5. Improved modulation efficiency of SOI optical modulator. 6. Analyze of input process parameter variation on threshold voltage in 45nm n-channel MOSFET 7. Optimization of process parameter variation in 45nm p-channel MOSFET using L 18 orthogonal array 8. Designing Asymmetric 2.4 GHz RF Oscillator for improving Signal Integrity by Design of Experiments
A Proposed Test Case Generation Technique Based on Activity Diagrams	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	Pakinam N. Boghdady, Nagwa L. Badr, Mohamed Hashem and Mohamed F.Tolba	8	1. An enhanced test case generation technique based on activity diagrams 2. A new approach to generate and optimize test cases for UML state diagram using genetic algorithm: http://doi. acm. org/10.1145/1809021.2180933 3. A Survey of UML-Based approaches to Testing 4. Test Cases Automatic Generator (TCAG): A Prototype 5. AUTOMATIC TEST CASES GENERATION FROM UML ACTIVITY DIAGRAMS USING GRAPH TRANSFORMATION 6. Test Path Generation Using Uml Sequence Diagram 7. Automatic generation of multi-testing types test cases using requirements-based testing 8. Mobile Phone Design Estimation Based On Test Cases in Design Phase
Mobile application and its global impact	IJET-IJENS Vol: 11 Issue: 01 10th February, 2011	Rashedul Islam, Md. Rofiqul Islam, Tahidul Arafhin Mazumder	7	1. Software Analytics for Mobile Applications--Insights & Lessons Learned 2. Impact of Smartphone's on Society 3. Towards collaborative traffic sensing using mobile phones (Poster) 4. Virtual bulletin board for off-campus housing 5. Braille to Go Smartphone 6. SAMOA--A Visual Software Analytics Platform for Mobile Applications 7. Mobile applications using augmented reality to support older people
TQM practices & organizational performance: evidence from Pakistani SMEs	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	SHAHAB ALAM MALIK, MUHAMMAD ZAHID IQBAL, RAZIA SHAUKAT, JIA YONG	5	1. Toplam Kalite Yönetimi Uygulamalarinin Finansal Olmayan Performans Algisi Üzerindeki Etkileri. 2. International Journal of Economics, Commerce and Management 3. The Impact of Critical Total Quality Management Practices on Hospital Performance in the Ministry of Health Hospitals in Saudi Arabia 4. SIGNIFICANCE OF TOTAL QUALITY MANAGEMENT IN ORGANIZATIONAL PERFORMANCE: AN EMPIRICAL ANALYSIS FROM SMES SECTOR 5. Toplam Kalite Yönetimi Uygulamalarinin Finansal Olmayan
Dielectric probe: A new electrical diagnostic tool for atmospheric pressure non-thermal plasma jet	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	A. Begum, M. Laroussi, M. R. Pervez	5	1. Measurements of streamer head potential and conductivity of streamer column in cold nonequilibrium atmospheric plasmas 2. Simulation of interaction between two counter-propagating streamers

				3. Simulation of a Single Streamer Traveling Along Two Counterpropagating Helium Jets in Ambient Air 4. Characterization of a Low-Cost Kilohertz-Driven Plasma Pen Operated in Ar Gas 5. Cell Repellent Coatings Developed by an Open Air Atmospheric Pressure Non-Equilibrium Argon Plasma Jet for Biomedical Applications
Thermal properties of epoxy-based adhesive reinforced with nano and micro-particles for in-situ timber bonding	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Z. Ahmad, M. P. Ansell, D. Smedley	5	1. Weathering resistance of solventborne polyurethane/nanosilica composite 2. An Investigation of Thermal, Physical and Electrical Properties and Morphological Behavior on Nano Epoxy Composite Insulation 3. Dynamic mechanical and thermal behavior evaluation of an epoxy/anhydride/nano-aluminum oxide composite system 4. An investigation of the effect of nano alumina on the electrical and thermal properties and morphological behavior of the cast epoxy nano composite 5. Creep behavior of epoxy-based adhesive reinforced with nanoparticles for bonded-in timber connection
Modeling, testing and experimental validation of laser machining micro quality response by artificial neural network	IJET-IJENS Vol: 09 Issue: 09 10th Oct, 2009	Sivarao, Peter Brevern, N. S. M. El-Tayeb, V. C. Vengkatesh	6	1. Taguchi based fuzzy logic optimization of multiple quality characteristics in laser cutting of Duralumin sheet 2. Simultaneous optimization of multiple quality characteristics in laser cutting of titanium alloy sheet 3. Modeling of Weld Lap-Shear Strength for Laser Transmission Welding of Thermoplastic Using Artificial Neural Network 4. Computer-aided genetic algorithm based multi-objective optimization of laser trepan drilling 5. Multi-objective optimization of quality in laser cutting based on response surface model 6. Multiple quality optimization in laser cutting of difficult-to-laser-cut material using grey-fuzzy methodology
Effect of Differences Core and Cavity Temperature on Injection Molded Part and Reducing the Warpage by Taguchi Method	IJET-IJENS Vol: 10 Issue: 06 10th Dec, 2010	Z. Shayfull, M. F. Ghazali, M. Azaman, S. M. Nasir, N. A. Faris	6	1. Injection Mould Analysis in Reducing Warpageof Nylon PA66 Side ArmsUsing Taguchi Method and ANOVA 2. Warpage Analyses on Thin Plate in Three-Plate Mold by Taguchi Method and Analysis of Variance (ANOVA) for PC, ABS and PC/ABS. 3. Warpage Factors Effectiveness of a Thin Shallow Injection-Molded Part using Taguchi Method 4. Optimizing Length of Weld Line Formation in Thin Plate by Taguchi Method and Analysis of Variance (ANOVA) 5. Optimization of the Plastic Injection Molding Parameters for Sport Equipment by Using Design of Experiment. 6. An optimization of plastic injection molding parameters using Taguchi optimization method
Effects of pressure and temperature on well cement degradation by supercritical CO2	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	Arina binti Sauki, Sonny Irawan	6	1. Evaluation of Thickening Time of Oil Field ClassG Cement Slurry at High Temperature and Pressure using Experimental Design 2. Innovative Leaching Tests of an Oilwell Cement Paste for CO< sub> 2 Storage: Effect of the Pressure at 80° C 3. GEOPOLYMER AS WELL CEMENT AND VARIATION OF ITS MECHANICAL PROPERTIES UNDER DIFFERENT CURING TEMPERATURE AND CURING … 4. Hydro-dynamically controlled alteration of fractured Portland cements flowed by CO< sub> 2-rich brine 5. Sub-and super-critical carbon dioxide permeability of wellbore materials under geological sequestration conditions: An experimental study 6. Prediction of compressive strength of oil field class G cement slurry using factorial design
An Investigation Toward Development Of Economical Brake Lining Wear Alert System	IJET-IJENS Vol: 09 Issue: 09 10th Oct, 2009	Sivarao, M. Amarnath, M. S. Rizal, A. Kamely	6	1. Thermomechanical stress analysis of vehicles gray cast brake 2. Thermomechanical analysis of vehicles gray iron brake discs 3. STUDY OF MATERIALS FOR BRAKE DRUMS 4. Temperature and Thermal Stresses of Vehicles Gray Cast Brake 5. Fabrication and Performance Evaluation of a Composite Material for Wear Resistance Application 6. Performance Investigation of the UTeM Eco-Car Disc Brake System
TQM practices & organizational performance: evidence from Pakistani SMEs	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	SHAHAB ALAM MALIK, MUHAMMAD ZAHID IQBAL, RAZIA SHAUKAT, JIA YONG	5	1. Toplam Kalite Yönetimi Uygulamalarinin Finansal Olmayan Performans Algisi Üzerindeki Etkileri. 2. International Journal of Economics, Commerce and Management

				3. The Impact of Critical Total Quality Management Practices on Hospital Performance in the Ministry of Health Hospitals in Saudi Arabia 4. SIGNIFICANCE OF TOTAL QUALITY MANAGEMENT IN ORGANIZATIONAL PERFORMANCE: AN EMPIRICAL ANALYSIS FROM SMES SECTOR 5. Toplam Kalite Yönetimi Uygulamalarinin Finansal Olmayan
Dielectric probe: A new electrical diagnostic tool for atmospheric pressure non-thermal plasma jet	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	A. Begum, M. Laroussi, M. R. Pervez	5	1. Measurements of streamer head potential and conductivity of streamer column in cold nonequilibrium atmospheric plasmas 2. Simulation of interaction between two counter-propagating streamers 3. Simulation of a Single Streamer Traveling Along Two Counterpropagating Helium Jets in Ambient Air 4. Characterization of a Low-Cost Kilohertz-Driven Plasma Pen Operated in Ar Gas 5. Cell Repellent Coatings Developed by an Open Air Atmospheric Pressure Non-Equilibrium Argon Plasma Jet for Biomedical Applications
Thermal properties of epoxy-based adhesive reinforced with nano and micro-particles for in-situ timber bonding	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Z. Ahmad, M. P. Ansell, D. Smedley	5	1. Weathering resistance of solventborne polyurethane/nanosilica composite 2. An Investigation of Thermal, Physical and Electrical Properties and Morphological Behavior on Nano Epoxy Composite Insulation 3. Dynamic mechanical and thermal behavior evaluation of an epoxy/anhydride/nano-aluminum oxide composite system 4. An investigation of the effect of nano alumina on the electrical and thermal properties and morphological behavior of the cast epoxy nano composite 5. Creep behavior of epoxy-based adhesive reinforced with nanoparticles for bonded-in timber connection
Warpage Factors Effectiveness of a Thin Shallow Injection-Molded Part using Taguchi Method	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2010	N. A. Shuaib, M. F. Ghazali, Z. Shayfull, M. Z. M. Zain, S. M. Nasir	5	1. Warpage Analyses on Thin Plate in Three-Plate Mold by Taguchi Method and Analysis of Variance (ANOVA) for PC, ABS and PC/ABS. 2. Reciprocal dry sliding wear behaviour of B< sub> 4 C< sub> p reinforced aluminium alloy matrix composites 3. Machining Parameters Optimization in End Milling of Ti-6Al-4V 4. Improving Warpage on Thin Shallow Parts in Two-Plate Moulds with Conformal Cooling Channels. 5. The Influence of Different Mold Temperature on Warpage in a Thin Shallow Injection Molding Process.
An efficient on-line signature verification system	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	S. A Daramola, T. S Ibiyemi	4	1. Online signature verification method based on the acceleration signals of handwriting samples 2. The effect of training data selection and sampling time intervals on signature verification 3. Camera-Based Signature Verification System through Discrete Radon Transform (DRT) and Principle Component Analysis (PCA). 4. Online Signature Forgery Prevention.
Comparative analysis of the industrial robot application in Europe and Asia	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	Isak Karabegovic, Edina Karabegovic, Ermin Husak	4	1. Worldwide Trend of the Industrial Robot Applications in the Welding Processes 2. Comparative analysis of the industrial robot application in the world for year 2010 3. APPLICATION ANALYSES OF INDUSTRIAL ROBOT IN WORLD AUTOMOBILE INDUSTRY IN 2010. 4. Industrial robot applications in manufacturing process in Asia and Australia
Simulation and control of spray drying using nozzle atomizer spray dryer	IJET-IJENS Vol: 09 Issue: 10 10th Dec, 2009	L. W. Tan, F. S. Taip, N. Abdul Aziz	4	1. Design, experimental investigation and analysis of a solar drying system 2. Empirical Modelling of Pasteurization Process Using Plate Heat Exchanger 3. Process Control of Pink Guava Puree Pasteurization Process: Simulation and Validation by Experiment 4. Relationship of lambda and overshoot of step response for a direct synthesis PI controller
Development of a Dropped Weight Impact Testing Machine	IJET-IJENS Vol: 11 Issue: 06 10th Dec, 2011	L. Gunawan, T. Dirgantara, I. S. Putra	4	1. Numerical and Experimental Impact Analysis of Square Crash Box Structure with Holes 2. ANALYTICAL PREDICTION OF SQUARE CRASH BOX STRUCTURE WITH HOLES DUE TO IMPACT LOADING 3. Experimental study of foam filled aluminum columns under axial impact loading 4. Designing and manufacturing of a drop weight impact test machine

Performance Evaluation of Bamboo Reinforced Concrete Beam	IJET-IJENS Vol: 11 Issue: 04 10th Aug, 2011	M. M. Rahman, M. H. Rashid, M. A. Hossain, M. T. Hasan, M. K. Hasan	4	1. Characterization of cotton fibre-reinforced geopolymer composites 2. Mechanical Characteristics of Cotton Fibre Reinforced Geopolymer Composites 3. Performance Evaluation Of Bamboo As Reinforcement In Design Of Construction Element 4. State of The Art Report on Bamboo Reinforcement
A proposed route selection technique in DSR routing protocol for MANET	IJET-IJENS Vol: 11 Issue: 02 10th April, 2011	Mamoun Hussein Mamoun	4	1. Intelligent Agent Based Delay Aware QoS Unicast Routing in Mobile Ad hoc Networks 2. Impact of Route Selection Metrics on the Performance of DSR Protocol for MANETs 3. A NEW POLICY FOR PATH SELECTION IN DYNAMIC SOURCE ROUTING PROTOCOL FOR MOBILE AD-HOC NETWORKS 4. LSA-AODV: A LINK STABILITY BASED ALGORITHM USING FUZZY LOGIC FOR MULTI-HOP WIRELESS MESH NETWORKS
The potential of modified microwave extraction system (mmes) to extract bioactive components from ferns	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Faridah Kormin, Iqbal Ahmed, Rosli bin Mohd Yunus, Zainal Abidin Mohd Yusof	4	1. Phytochemical studies on five medicinal ferns collected from Southern Western Ghats, Tamilnadu 2. Optimisation of microwave-assisted extraction of phenolic compounds from broccoli and its antioxidant activity 3. Production of xylooligosaccharide from wheat bran by microwave assisted enzymatic hydrolysis 4. A Brief Understanding of Process Optimisation in Microwave-assisted Extraction of Botanical Materials: Options and Opportunities with Chemometric Tools
Techniques for optimization in time delay estimation from cross correlation function	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Noor Shafiza Mohd Tamim, Farid Ghani	4	1. The SCAR/WAVE complex is necessary for proper regulation of traction stresses during amoeboid motility 2. Envelope and Wavelet Transform for Sound Localisation at Low Sampling Rates in Wireless Sensor Networks 3. A Self-Contained and Self-Checking LPS with High Accuracy 4. Analysis of signal bandwith effect on the performance of passive TDOA Estimation
Feasible C7+ splitting methods an object-oriented approach	IJET-IJENS Vol: 10 Issue: 01 10th Feb, 2010	Hassan S. Naji	4	1. Simulation of Asphaltene Deposition During CO2 Flooding 2. Determination of Multiphase Boundaries and Swelling Factors of 3. Determination of Multiphase Boundaries and Swelling Factors of Solvent (s)–CO2–Heavy Oil Systems at High Pressures and Elevated Temperatures 4. SVEUCILIŠTE U ZAGREBU RUDARSKO-GEOLOŠKO-NAFTNI FAKULTET
Estimation of peak power density in the vicinity of cellular base stations, FM, UHF and WiMAX antennas	IJET-IJENS Vol: 11 Issue: 02 10th April, 2011	Bexhet Kamo, Rozeta Miho, Vladi Kolici, Sanie Cela, Algenti Lala	4	1. Measurement and Method in Radiofrequency Radiation Exposure Assessments. 2. Automated Measurement and Monitoring of the Electromagnetic Fields from GSM Systems 3. Analysis of Cell Tower Radiations & Practical Realization of Compliance Distance 4. SAFETY ZONE DETERMINATION FOR WIRELESS CELLULAR TOWER-A CASE STUDY FROM TANZANIA
APPLICATION OF LEAN MANUFACTURING TO IMPROVE THE PERFORMANCE OF HEALTH CARE SECTOR IN LIBYA	IJET-IJENS Vol: 10 Issue: 06 10th Dec, 2010	OM Erfan	4	1. An empirical–exploratory study of the status of lean manufacturing in India 2. Lean Healthcare Practice and Healthcare Performance in Malaysian Healthcare Industry 3. Lean production and TQM: Complementary or Contradictory Driving Forces of Innovation Performance? 4. APPLICATION OF LEAN MANUFACTURING IN STEEL INDUSTRIES BY MANAGING TOTAL QUALITY MANAGEMENT
Design, Simulation and Modeling of a Micromachined High Temperature Microhotplate for Application in Trace Gas Detection	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	John Ojur Dennis, Abdelaziz Yousif	4	1. Analytical modeling of square microhotplate for gas sensing application 2. Effect of heater geometry on the high temperature distribution on a MEMS micro-hotplate 3. Choice of insulation materials and its effect on the performance of square microhotplate 4. Design and simulation of Pt-based microhotplate, and fabrication of suspended dielectric membrane by bulk micromachining
Nano-Clay Particle as Textile Coating	IJET-IJENS Vol: 11 Issue: 05 10th Oct, 2011	A. Ghosh	4	1. Effect of plasma pretreatment followed by nanoclay loading on flame retardant properties of cotton fabric 2. Nanoclay-based Pigments: synthesis, characterization

				and application 3. Aged-look vat dyed cotton with anti-bacterial/anti-fungal properties by treatment with nano clay and enzymes 4. Novel method for ultraviolet protection and flame retardancy of cotton fabrics by low-temperature plasma
Numerical study of MHD free convection flow and mass transfer over a stretching sheet considering Dufour & Sort effects in the presence of Magnatic Field, Inter	**IJET-IJENS Vol: 11 Issue: 05 10th Oct, 2011**	**M. U. Ahammad, Md. Shirazul Hoque Mollah**	**4**	1. Spline Computation for Solving Magnetohidrodynamics Free Convection Flow 2. ANALYSIS OF MHD FREE CONVECTION FLOW ALONG A VERTICAL POROUS PLATE EMBEDDED IN A POROUS MEDIUM WITH MAGNETIC FIELD AND … 3. Thermal diffusion and diffusion thermo effects on unsteady MHD free convection flow over a stretching surface considering Joule heating and viscous dissipation with … 4. MHD Heat and Mass Transfer for Viscous flow over Nonlinearly Stretching Sheet in a Porous Medium
Study of the Effect of Rare-earth Oxide Addition on the Magnetic and Dielectric Properties of Sr-hexaferrites	**IJET-IJENS Vol: 12 Issue: 05 10th Oct, 2012**	**N Debnath, M. M. Rahman, F. Ahmed, M. A. Haki**	**4**	1. Magnetic, Dielectric and Electrical Properties of Lithium-Magnesium Ferrites 2. Thermal Hysteresis of Permeability and Transport Properties of Cu Substituted Ni 0.28 Cu 0.10+ x Zn 0.62–x Fe 1.98 O 4 Ferrites 3. Structural and Magnetization Behaviors of Ni Substituted Li-Mg Ferrites 4. Synthesis and Characterization of by Standard Ceramic Method
Location Aided Hybrid Routing Algorithm for MANET	**IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2010**	**Mamoun Hussein Mamoun**	**3**	1. A proposed route selection technique in DSR routing protocol for MANET 2. Design A New Approach In Mobile Ad–Hoc Network Routing With Bandwidth Efficient Protocol 3. A Proposed Routing Protocol for MANET
Hazards of heavy metal contamination on the groundwater around a municipal dumpsite in Lagos, Southwestern Nigeria.	**IJET-IJENS Vol: 11 Issue: 05 10th Oct, 2011**	**Laniyan, T. A.; Kehinde Phillips, O. O.; Elesha, L.**	**3**	1. Determination of Different Trace Heavy Metals in Ground Water of South West Bank/Palestine by ICP/MS. 2. Assessment of Groundwater Pollution with Heavy Metals in North West Bank/Palestine by ICP-MS 3. Genotoxicity and mutagenicity of solid waste leachates: A review
A Probabilistic modeling of distribution equipment Deterioration; An application to transformer insulation.	**IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010**	**Adoghe, A. U.; Awosope, C. O. A.; Ekeh, J. C.**	**3**	1. Critical Review of Reliability Centred Maintenance (RCM) for Asset Management in Electric Power Distribution System 2. Modeling Distribution Component Deterioration: An Application to Transformer Insulation 3. Asset maintenance planning in electric power distribution network using statistical analysis of outage data
MECHANICAL PROPERTIES OF KENAF/POLYESTER COMPOSITES.	**IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011**	**Mohd Yuhazri, Y.; Phongsakorn, P. T.; Sihombing, Haeryip; Jeefferie, A. R.; Perumal, Puvanasvaran; Kamarul, A. M.; Rassiah, Kannan**	**3**	1. Impact strength, microstructure, and water absorption properties of kenaf/polyethylene terephthalate (PET) fiber-reinforced polyoxymethylene (POM) hybrid … 2. Mechanical properties of recycled kenaf/polyethylene terephthalate (PET) fiber reinforced polyoxymethylene (POM) hybrid composite 3. Studies on the Tensile Properties of Naturally-Occurring Banana Fibers.
The Students? Perceived Quality Comparison of ISO 9001 and Non-ISO 9001 Certified School: an Empirical Evaluation	**IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011**	**Sik Sumaedi, I Gede Mahatma Yuda Bakti**	**3**	1. THE INTERNATIONAL STUDENTS'PERCEPTION TOWARDS THE EDUCATION QUALITY 2. An Analysis of Library Customer Loyalty: The Role of Service Quality and Customer Satisfaction, a Case Study in Indonesia 3. Aplicació dc les Normes ISO a l'ensenyament
Modification of TiO 2 Nanoparticle with PEG and SiO 2 For Anti-fogging and Self-cleaning Application.	**IJET-IJENS Vol: 11 Issue: 02 10th April, 2011**	**Tristantini, Dewi; Mustikasari, Rini**	**3**	1. Surface Modification of Inorganic Nanoparticles for Development of Organic-Inorganic Nanocomposites–A Review 2. Type of lattice strain alteration, the reducing agent of activation energy of titania loading on the silica matrix than that of pure titania 3. Photocatalytic reaction of SiO2/TiO2 composite core-shell structured powders
Smart oilfield data mining for reservoir analysis	**IJET-IJENS Vol: 10 Issue: 06 10th Dec, 2010**	**Akmal Aulia, Tham Boon Keat, Muhammad Sanif Bin Maulut, Noaman El-Khatib, Mazuin Jasamai**	**3**	1. [PDF] from kfupm.edu.sa Hybrid soft computing systems for reservoir PVT properties prediction 2. Application of data mining to production operation and control system in oil field 3. Reservoir Characterization and Horizontal Well Placement Guidance Acquisition by Using GIS and Data Mining Methods

DOE Based Statistical Approaches in Modeling of Laser Processing--Review & Suggestion.	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	TJS Anand	3	1. Application of Taguchi based Design of Experiments to Fusion Arc Weld Processes: A Review 2. Optimization of the production parameters of octyl ester biolubricant using Taguchi's design method and physico-chemical characterization of the product 3. An Exploratory Study-Critical Laser Processing of Composite Materials
Adsorptive removal of Cu (II) using activated carbon prepared from rice husk by ZnCl 2 activation and subsequent gasification with CO 2	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	N Yahaya, M Latiff, I Abustan, OS Bello, MA Ahmad	3	1. Metal organic frameworks as adsorbents for dye adsorption: overview, prospects and future challenges 2. Kinetics and equilibrium studies of the adsorption of Cu (II) from aqueous solution using Acacia nilotica seed pods on ZnCl2 activation 3. Dynamic behaviour of Cd2+ adsorption in equilibrium batch studies by CaCO3--rich Corbicula fluminea shell
Trends and Issues to integrate ICT in Teaching Learning for the Future World of Education	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	Md. Aktaruzzaman, Md. Rashedul Huq Shamim, Che Kum Clement	3	1. The potential of e-learning in assisting post-crisis countries in rebuilding their higher education systems: The case of Libya 2. Examining the impact of Information and Communication Technology capacity building in High School education in Ghana. 3. Development Institute Journal
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Tunable Active Dual-Band Bandpass Filter Design Using MMIC Technology	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	A. Alahyari, A. Habibzadeh, M. Dousti	3	1. Designing Tunable Narrowband Bandpass Filter Utilizing Neural Network And Converting It To Wideband Filter. 2. A Broadband Tunable Band-Pass Filter for RF Characterization Within TETRA and LTE Bands 3. Designing an active band-pass filter with tunable transversal element at 4-GHz using 0.2µm GaAs technology
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Review of vibration signal processing techniques towards gear pairs damage identification	IJET-IJENS Vol: 11 Issue: 04 10th Aug, 2011	Rusmir Bajric, Denijal Spre ci c, Ninoslav Zuber	3	1. Synchronous Analysis in Wind Turbine Gearbox Condition Monitoring 2. Effective and accurate approaches for wind turbine gearbox condition monitoring 3. An Unconstrained Benchmark Urdu Handwritten Sentence Database with Automatic Line Segmentation
Injection Mould Analysis in Reducing Warpageof Nylon PA66 Side ArmsUsing Taguchi Method and ANOVA	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	M.F. Ghazali, Z. Shayfull,N. A. Shuaib,S. M. Nasir, M. Mat Salleh	3	1. Warpage Analysis between Straight and Conformal Cooling Channels on Thin Shallow Shell 2. Optimization of Injection Moulding Process using Taguchi and ANOVA 3. The Influence of Different Mold Temperature on Warpage in a Thin Shallow Injection Molding Process.
Investigating The Impact of Emotional Intelligence On Technology Learning	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	AHA Al-Faouri	3	1. The Relationship Between Emotional Intelligence and Students' Attitude Towards Computers: A Study on Polytechnic Engineering Students 2. The Relationship Between Emotional Intelligence and Students' Attitude Towards Computers: A Study on Polytechnic Engineering Students. 3. Emotional Intelligence in Medical Laboratory Science
Optimizing Length of Weld Line Formation in Thin Plate by Taguchi Method and Analysis of Variance (ANOVA)	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	Z. Shayfull, N. A. Shuaib, M. F. Ghazali, S. M. Nasir, Z. Nooraizedfiza	3	1. Gate shape optimization using design of experiment to reduce the shear rate around the gate 2. Design and Comparative Analysis of Mathematical and Simulation Models in Injection Molding Decision System. 3. The Influence of Different Mold Temperature on Warpage in a Thin Shallow Injection Molding Process.
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Real time implementation of digital LFM pulse compression technique over acoustic waveguides	IJET-IJENS Vol: 10 Issue: 04 10th Aug, 2010	Saqib Ejaz, Muhammad Amir Shafiq	2	1. Real Time Design and Realization of Digital Radar Pulse Compression Based on Linear Frequency Modulation (LFM) without Components around Zero ... 2. Design and Realization of Digital Pulse Compression in Pulsed Radars Based on Linear Frequency Modulation (LFM) Waveforms Using FPGA
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Energy Use Patterns in Tomato Paste Production: A case study of Savannah Integrated Farms Limited, Dadin-kowa, Gombe State, Nigeria	IJET-IJENS Vol: 10 Issue: 01 10th Feb, 2010	Mohammed Shu'aibu Abubakar, Bobboi Umar, Desa Ahmad	2	1. Ohmic pre-drying of tomato paste 2. Projekt Solar Foods
Coating on Viscose:-Poor wet strength of viscose can be improved by the application of chemical finishes like Water repellent and soil release finishes.	IJET-IJENS Vol: 11 Issue: 05 10th Oct, 2011	A. Ghosh	2	1. Surface Functionalization of Viscose and Polyester fabrics towards antibacterial and coloration Properties 2. Towards high Performance Viscose, Polyester and their Blended fabrics in garment using Nano Silicon dioxied
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Detection of nonlinearity and stochastic nature in time series by delay vector variance method	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	I. Ahmed	2	1. Nonlinearity and chaos in 8 B solar neutrino flux signals from Sudbury neutrino observatory 2. Complexity in Solar Irradiance From the Earth Radiation Budget Satellite

Effect of Polyacrylic Acid Addition to Improve Nano Zinc Oxide Dispersion Stability	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Radyum Ikono, Nurwenda Novan Maulana, Tanti Dewinggih, Mukhtar Effendi, Wahyu Bambang Widayanto, Agus Sukarto, Nurul Taufiqu Rochman	2	1. A formulation strategy for preparation of ZnO–Propylene glycol–water nanofluids with improved transport properties 2. Responses of hepatic metallothioneins and apoptotic activity in< i> Carassius auratus gibelio witness a release of cobalt and zinc from waterborne nanoscale ...
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Identification and Assessment of Key Risks and Power Quality Issues in Liberalized Electricity Markets in Europe	IJET-IJENS Vol: 11 Issue: 03 10th Jun, 2011	M. K. Jukan, A. Jukan, A. Tokic	2	1. DEMAND, SUPPLY AND PARTIAL EQUILIBRIUM ANALYSIS OF TURKISH ELECTRICITY ENERGY PRICING 2. The evolution of the global energy industry
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Investigation of Mixed Filler Effect on Optical and Structural Properties of PEMA Films	IJET-IJENS Vol: 12 Issue: 04 10th Aug, 2012	E. M. Abdelrazek, A. M. Abdelghany, A. H. O. G. M. Asnag	2	1. Characterization of (Polyvinyl alcohol-polyacrylamide-Pomegranate Peel) Compositeso as Biocomposites Materials 2. Effect of organomodified clay on the reaction kinetics, properties and thermal degradation of nanocomposites based on poly (styrene-co-ethyl methacrylate)
Comparative Study of Compliant & Non-Compliant RMG Factories in Bangladesh	IJET-IJENS Vol: 10 Issue: 02 10th April, 2010	Lal Mohan Baral	2	1. Legal Regulation of Corporate Social Responsibility: A Meta-Regulation Approach of Law for Raising CSR in a Weak Economy 2. Legal Regulation of Corporate Social Responsibility
Performance Comparison of LTE Transmission Modes in High Speed Channels using Soft Sphere Decoder.	IJET-IJENS Vol: 12 Issue: 03 10th Jun, 2012	S. A. Irtaza, A. Habib	1	1. Enhanced Geometry-Based MIMO Propagation Channel Modeling for 4G Networks
Design and Simulation of 160 MHz Bandpass Filter with 60 MHz Bandwidth	IJET-IJENS Vol: 12 Issue: 05 10th Oct, 2012	S. A. Irtaza, A. Habib	1	1. Chebyshev Filter at 197.12 MHz Frequency for Radar System
Experimental and Analytical Investigation of Flexural Behavior of Reinforced Concrete Beam.	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	Saifullah, I.; Nasir-uz-zaman, M.; Uddin, S. M. K.; Hossain, M. A.; Rashid, M. H.	1	1. Nonlinear finite element analysis of FRP strengthened reinforced concrete beams
COMPARATIVE STUDIES ON SOME STARCHY ADSORBENTS FOR THE UPTAKE OF WATER FROM ETHANOL–WATER MIXTURES.	IJET-IJENS Vol: 11 Issue: 05 10th Oct, 2011	Saifullah, I.; Nasir-uz-zaman, M.; Uddin, S. M. K.; Hossain, M. A.; Rashid, M. H.	1	1. Kinetics and Isotherm Studies of the Adsorptive Dehydration of Ethanol-Water System with Biomass Based Materials
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Reducing the Mechanical Wear in a Dusty	IJET-IJENS Vol: 11 Issue: 06 10th Dec,	A. M. Sheikh, M. I. Khashaba, W. Y. Ali	1	1. INTERNATIONAL JOURNAL OF MECHANICAL ENGINEERING AND TECHNOLOGY (IJMET)

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Integrated optical refractometer based on U-shape bend waveguide structure for (bio-) chemical sensing applications	IJET-IJENS Vol: 10 Issue: 06 10th Dec, 2010	Sekartedjo, Agus Muhamad Hatta, Dhany Arifianto	1	1. Investigation of the effect of curvature on sensitivity of bio/chemical sensors based on embedded polymer semicircular waveguides
Non-Linear Dynamic Analysis of Composite Conical Shell Structures.	IJET-IJENS Vol: 09 Issue: 09 10th Oct, 2009	Sultan Aljibori, Hakim S.; Mahdi, E.; Hamouda, A. M.; Mokhtar, A. S.	1	1. Axial crush of metallic and hybrid energy absorbing thin-walled tubes with polygonal cross-sections: Numerical analysis
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Polynomial Barrier Method for Solving Linear Programming Problems.	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	P. Moengin	1	1. Direct Heuristic Algorithm for Linear Programming Direct Heuristic Algorithm for Linear Programming
Comparative study between degradation analysis and first order reliability method for assessing piping reliability for risk-based inspection	IJET-IJENS Vol: 11 Issue: 01 10th Feb, 2011	P. Moengin	1	1. Comparative Study between Degradation Analysis and API 510 Remaining Life Evaluation Method for Feed Gas Filter Vessel Reliability Analysis
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Study on Pressure Distribution and Load Capacity of a Journal Bearing Using Finite Element Method and Analytical Method.	IJMME-IJENS Vol: 10 Issue: 05 10th Oct, 2010	Nuruzzaman, D. M.; Khalil, M. K.; Chowdhury, M. A.; Rahaman, M. L	9	1. Preliminary Study of Pressure Profile in Hydrodynamic Lubrication Journal Bearing 2. Fuzzy logic based model to predict maximum Oil-film pressure in journal bearing 3. Application of Fuzzy Logic Approach to Predict Maximum Oil-Film Pressure in Journal Bearing 4. Prediction of Maximum Oil-Film Pressure in Journal Bearing using Fuzzy Logic and Particle Swam Optimization approaches. 5. Analysis of static and dynamic performance characteristics of THD journal bearing operating under lubricants containing nanoparticles 6. The Effect of Oil Supply Pressure on the Circumferential Pressure Profile in Hydrodynamic Journal Bearing 7. Isothermal Analysis of Elliptic Bore Journal Bearing Considering Isotropic Roughness. 8. Analysis of Hydrodynami 9. Analysis of Factors Interaction for Maximum Oil-Film Pressure in Hydrodynamic Journal Bearing.
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