

One Line Space Size 16

Title of paper (Times New Roman, Size 16, Bold)

One Line Space Size 14

Auther Name(s) (Times New Roman, Size 14, Bold)

Address of Auter (Times New Romans, Size 10,Italic)

Email: address@yahoo.com

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(Received 11 July2006 ; accepted 24 September 2007) (Times New Roman, Size 10)

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Line Width: 16.9 cm and Line Thickness: 1 pt

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Abstract (Times New Roman, Size 12, Bold)

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0.5 cm
Abstract text in Arabic script, first line.

Abstract text in Arabic script, second line.

Space Size 10

Keywords (Times New Roman, Size 10, Bold, Italic): Keywords in Arabic script (Times New Roman, Size 10, Italic).

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1. Introduction (TNR, B, Numbered)

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Introduction text in Arabic script, first line.

Column width
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Introduction text in Arabic script, second line.

Column width
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Introduction text in Arabic script, third line.

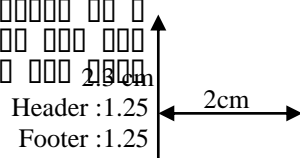
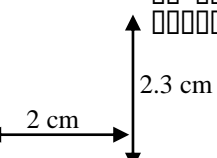
Introduction text in Arabic script, fourth line.

Introduction text in Arabic script, fifth line.

Introduction text in Arabic script, third line.

0.5 cm
Introduction text in Arabic script, fourth line.

Introduction text in Arabic script, fifth line.



Abstract: This paper presents a modified networks-of-zones model for the analysis of the dynamic behavior of a structure under seismic excitation. The model is based on the concept of zones and is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model.

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2. Modified networks-of-zones model

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The modified networks-of-zones model is based on the concept of zones. The structure is divided into zones, and the response of each zone is analyzed separately. The zones are connected to each other, and the overall response of the structure is determined. The model is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model.

$$\epsilon_5 = \phi_1 + \frac{\partial w_0}{\partial x_1} - z^2 \times \left(\frac{4}{H^2} \right) \times \left(\phi_1 + \frac{\partial w_0}{\partial x_1} \right) \dots(1)$$

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Table 1, (TNR, Size 10)

Table 1 shows the relationship between the weight/volume ratio and the protein content of the substrate. The results show that the weight/volume ratio increases with the protein content of the substrate.

Substrate	Protein	Weight/volume
(u/g substrate)	(u/g protein)	(weight/volume)
0.48	6.30	1.00
0.60	10.00	1.50
0.70	11.90	2.50
0.79	12.40	3.00
0.75	11.50	3.50
0.50	7.70	4.50
0.30	2.80	5.50

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The modified networks-of-zones model is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model. The model is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model.

$$\int_{i2}^{i1} (\delta U - \delta K) \delta t = 0 \dots(2)$$

$$\delta U = \int_A \int_z \sigma_1 \delta \epsilon_1 + \sigma_2 \delta \epsilon_2 + \sigma_3 \delta \epsilon_3 + \sigma_6 \delta \epsilon_6 + \sigma_5 \delta \epsilon_5 + \sigma_4 \delta \epsilon_4 \times R d \theta dz dx$$

$$\delta K = - \int_t \int_V R \rho \left(\ddot{u} \delta u + \ddot{v} \delta v + \ddot{w} \delta w \right) dz dx d \theta dt$$

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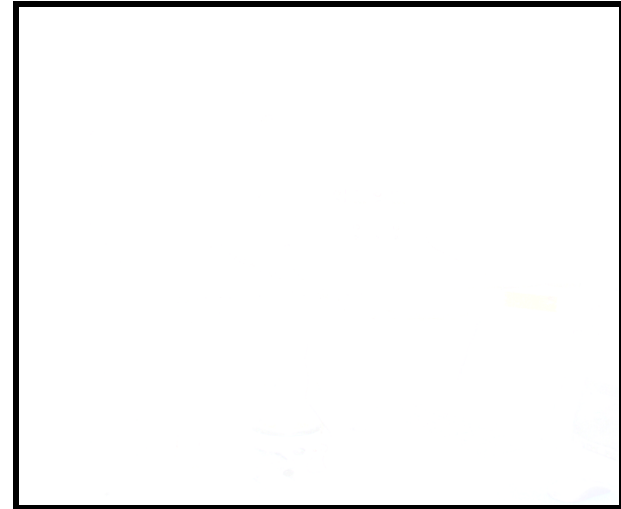
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3. Experimental (TNR, Size 12, Bold)

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The experimental setup for the modified networks-of-zones model is shown in Figure 1. The structure is supported on a base, and the response is measured using sensors. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model. The model is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model.

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Fig. 1. (TNR, Size 10, Bold, line sapcing 1).

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Experimental procedures

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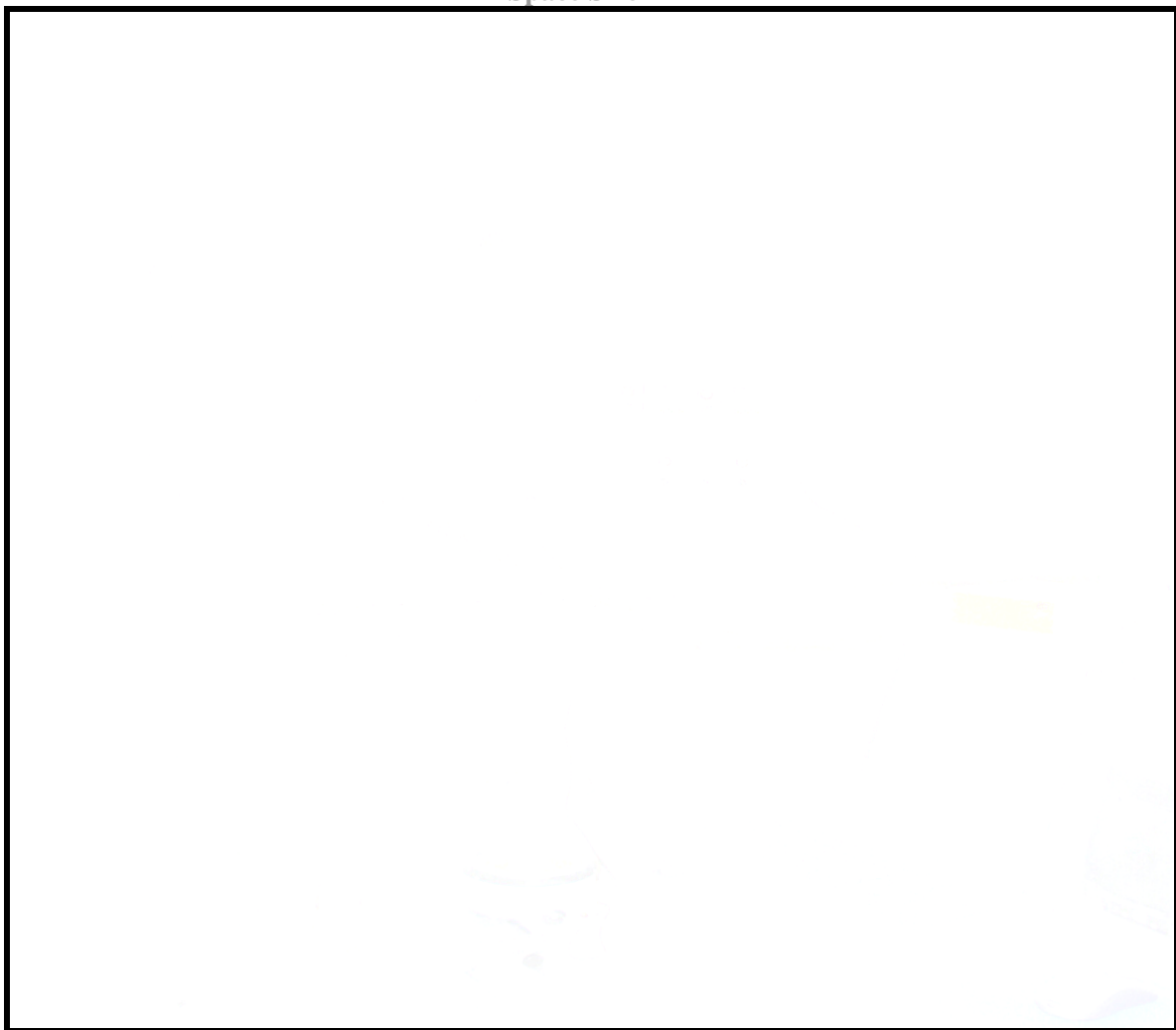
The experimental procedures for the modified networks-of-zones model are described in this section. The structure is supported on a base, and the response is measured using sensors. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model. The model is used to analyze the response of a structure under seismic excitation. The results show that the modified model provides a more accurate prediction of the structure's response compared to the conventional model.

Table 2, (TNR, Size 10)

Table 2, (TNR, Size 10, Bold)

(R/a)	Theory	[0-90]		[0-90-0]		[0-90-90-0]	
		(a/H)=100	(a/H)=10	(a/H)=100	(a/H)=10	(a/H)=100	(a/H)=10
5	FST	28.825	9.230	30.993	12.372	31.079	12.437
	Present Work	28.829	9.307	30.999	12.018	31.083	12.007
	FEM	27.563	8.872	29.253	11.563	30.146	11.683
	Discrepancy%	4.3	4.7	5.63	3.67	3	2.6
10	FST	16.706	8.984	20.347	12.215	20.380	12.280
	Present Work	16.710	9.064	20.353	11.853	20.385	11.840
	FEM	16.001	8.254	19.754	11.102	19.831	11.024
	Discrepancy%	4.24	9	2.9	6.1	2.71	6.64
20	FST	11.841	8.921	16.627	12.176	16.638	12.240
	Present Work	11.847	9.002	16.634	11.811	16.643	11.798
	FEM	11.011	8.201	16.001	11.310	15.885	11.023
	Discrepancy%	7.06	8.97	3.807	4.11	4.55	6.33

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Fig. 2. (TNR, Size 10, Bold, line spacing 1).

4. Results and discussion

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Fig. 3. (TNR, Size 10, Bold, line spacing 1).

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4.1. Simulation (TNR, Size 12, Bold, Italic)

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4.2. Model parameter setting

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5. Conclusion

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Notation (TNR, Size 12, Bold, line spacing 1)

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- A coefficient matrix
C_i, C_i* concentration and normalized concentration of i-th parcel
C, C_0 concentration vectors at t = t and t = 0
k coefficient vector as defined in Eq. (7)
q volumetric flow rate of main convective stream
t time
v parcel volume
V; V_ij matrix formed by eigenvectors and its ij-th component

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Greek letters (TNR, Size 12, Bold, Italic)

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- alpha dimensionless interaction intensity between neighboring uprising streams
beta dimensionless interaction intensity between neighboring uprising and down-coming streams
epsilon tolerance
lambda_i i-th eigenvalue
lambda_max, R real and part of eigenvalue with maximum nonzero real part
Lambda diagonal matrix composed of eigenvalues
omega reciprocal of time needed to fill an empty parcel with volumetric flow rate q

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Acknowledgements (TNR, Size 12, Bold)

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6.References

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[1] "The Role of the Islamic State in the Development of the Islamic World"

[2] "The Role of the Islamic State in the Development of the Islamic World"

[3] "The Role of the Islamic State in the Development of the Islamic World"

[4] "The Role of the Islamic State in the Development of the Islamic World"

[5] "The Role of the Islamic State in the Development of the Islamic World"

[6] "The Role of the Islamic State in the Development of the Islamic World"

[7] "The Role of the Islamic State in the Development of the Islamic World"

[8] "The Role of the Islamic State in the Development of the Islamic World"

[9] "The Role of the Islamic State in the Development of the Islamic World"

[10] "The Role of the Islamic State in the Development of the Islamic World"

