

Editors

Nagesh R. Iyer
N. Gopalakrishnan

K. Balaji Rao
B.H. Bharatkumar

Contents

40-1	Finite element analysis of Reinforced Concrete (RC) beams with continuously inclined shear reinforcement by using an equivalent constitutive property N. Anandavalli, N. Lakshmanan, Nagesh R. Iyer, J. Rajasankar and Amar Prakash	1
40-2	Simulation of fire resistance of reinforced concrete structural members Hitesh Lakhani, Praveen Kamath, Pradeep Bhargava, Tarvinder Singh and G. R. Reddy	7
40-3	Nonlinear FEA for ultimate strength behavior of Corrosion damaged RC Beam A. Kanchana Devi and K. Ramanjaneyulu	12
40-4	Solution of the nonlinear transverse vibration problem of a beam on elastic foundation using the Adomian decomposition method Mohammed R. Sunny and Rakesh K. Kapuria	21
40-5	Numerical evaluation of controllers for delay compensation in real-time substructuring Mohit Verma, J. Rajasankar and Nagesh R. Iyer	29
40-6	Masonry failure analysis using a composite interface model Nitin Kumar and A. Rajagopal	35
40-7	Wavelet packet transform based damage identification of GFRP beam R. Prakash, Siyakumar and M. Srinivasan	44
40-8	Behaviour of multilayered simply supported composite hypar shell roof impacted by a solid striker- A finite element approach Sanjoy Das Neogi, Amit Karmakar and Dipankar Chakravorty	48
40-9	Structural Health Monitoring (SHM) of cantilever beam using support vector machine Satish Satpal, Yogesh Khandare, Anirban Guha and Sauvik Banerjee	58
40-10	Rivet loads in a single-row three-rivet lap joint using 3D numerical simulations Sharad Kumar, S. Ganesh, D.V.T.G. Pavan Kumar and Satish Chandra	65
40-11	Computational studies on shape memory polymer under various deformations R. Sujithra, S. M. Srinivasan and A. Arockiarajan	72
40-12	Simulation of flexural behavior of a simply supported beam subjected to corrosion Vinay Mahadik, Akanshu Sharma, J. Ozbolt, Y.M. Parulekar, G.R. Reddy and K.K. Vaze	80
40-13	Numerical modeling of response of beams subjected to blast loading K. Vineet Kumar Reddy, Rajesh P. Nair and C. Lakshmana Rao	85
	Book Review	90
	News and Notes	92

Typeset in LATEX and printed by

Sigma Publishing Services

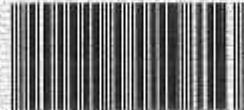
No. 9/5, Begam Main Street

Royapettah, Chennai - 14.

Phone: 044-65151910

Email: sigmapublishing@gmail.com

ISSN 0970013-7



9 770970 013003