Journal of Structural Engineering



Volume 50 Number 2 June - July 2023

Editors

B.H. Bharatkumar

A. Ramachandra Murthy

M.B. Anoop Saptarshi Sasmal

Contents

50-07	Failure investigation and retrofitting of a long-span rail-cum-road bridge through field response measurements Srinivas Voggu, Saptarshi Sasmal, Nawal Kishor Banjara, B.S. Sindu and K. Ramanjaneyulu	93
50-08	Finite element (FE) analysis on strengthened reinforced concrete (RC) column clad with cementitious composite exposed to elevated temperature H. Afifudin, S. Qhairulsyakirin and M.S. Hamidah	103
50-09	Seismic response of selective pallet racks along down-aisle direction, subjected to far-field and near-field ground motions Bennet A. Ipe and A.S. Sajith	120
50-10	Structural state classification of 3D frame – a machine learning approach Sathish Polu, M.V.N. Sivakumar and Rathish Kumar Pancharathi	139
50-11	Free vibration analysis and testing of magnetorheological fluid embedded viscoelastic cored sandwich beam K.S. Srinivasa Prasad and A.N. Adarsh	153
50-12	Numerical investigation of the influence of sphere voids on the flexural performance of square RC voided slab-beam system Nunavath Nareshnayak	161
	News and Notes	174

Typeset in LATEX and printed by

Sigma Publishing Services

No. 3/448, Bharat Nagar, Brahmaputra Street, Moovarasampet, Chennai - 600 091.

Phone: 098846 62221

Email: sigmapublishing17@gmail.com

ISSN 0970013-7