

Sustainable Development in Civil and Electrical Engineering (SDCEE 2021)

IOP Conference Series: Materials Science and Engineering
Volume 1236

Online
17 - 19 December 2021

ISBN: 978-1-7138-5437-1
ISSN: 1757-8981

Printed from e-media with permission by:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571



Some format issues inherent in the e-media version may also appear in this print version.

This work is licensed under a Creative Commons Attribution 3.0 International Licence.
Licence details: <http://creativecommons.org/licenses/by/3.0/>.

No changes have been made to the content of these proceedings. There may be changes to pagination and minor adjustments for aesthetics.

Printed with permission by Curran Associates, Inc. (2022)

For permission requests, please contact the Institute of Physics
at the address below.

Institute of Physics
Dirac House, Temple Back
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481
Fax: 44 1 17 920 0979

techtracking@iop.org

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2633
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Preface	
Peer Review Statement	
Heat Transfer Enhancement in Composite Building Wall using Phase Change Material	1
<i>G Dhanusiya, Mohit Gulati, T Rajasekaran, G Elavarasan, A Balamurugan</i>	
Study of self-compacting concrete containing coal bottom ash and fly ash	10
<i>Mohd. Adnan, Ankit Kumar, Kunal Kant, Paratibha Aggarwal, Yogesh Aggarwal</i>	
Quantification of Non-conventional Brick's Characteristic Compressive Strength	20
<i>Jyoti Prakash Giri, Monalisa Priyadarshini</i>	
Response of Different RC Slab Systems in Buildings to Seismic Excitations	26
<i>Ramakant Azad, Saraswati Setia</i>	
Performance Based Seismic Design of Steel Structure Using Non-Linear Dynamic Analysis	35
<i>Choimei Moileen Semdok, Babita Saini</i>	
Behavior of Different Configuration of Piled Raft Foundation for a High-Rise Building by using FEM.....	45
<i>Pratish Kannaujiya, Vijay Kumar Srivastava</i>	
Design of Pile Foundation for Distillation Column.....	54
<i>Rajkumar R. Betkar, Atteshamuddin S. Sayyad</i>	
Bending of Functionally Graded Nanobeams using Hyperbolic Nonlocal Theory	61
<i>A S Jape, A S Sayyad</i>	
Effect of Thickness Stretching on the Natural Frequencies of Layered Composite Beams	67
<i>Nitin S. Naik, Atteshamuddin S. Sayyad</i>	
A four node quadrilateral shell element for free vibration response of functionally graded spherical shell panels	74
<i>R B Dahele, S D Kulkarni, V A Dagade</i>	
Accident prediction modelling for expressways: a review	83
<i>P Kumar, J K Jain, G Singh</i>	

Author Index