

Indian Journal of Engineering & Materials Sciences

<http://www.niscair.res.in>; <http://nopr.niscair.res.in>

VOLUME 24
CODEN : IEMSEW

NUMBER 2

APRIL 2017
ISSN : 0971-4588

CONTENTS

A single-input multiple-output voltage-mode second-order universal filter using only grounded passive components Erkan Yuce	97
Free vibration analysis of functionally graded rotating beam by differential transform method P Ravi Kumar, K Mohana Rao & N Mohan Rao	107
Examination of the effects of burnishing apparatus on surface roughness and hardness in burnishing process Hudayim Basak & Fikret Sonmez	115
Temperature dependent dielectric behaviour and structural dynamics of PEO-PMMA blend based plasticized nanocomposite solid polymer electrolyte Shobhna Choudhary, Priyanka Dhatarwal & R J Sengwa	123
Microstructure and mechanical behaviour of RHA and B ₄ C reinforced aluminium alloy hybrid metal matrix composite Shashi Prakash Dwivedi, Alok Srivastava, Ajay Kumar & Brij Nandan	133
The concept, construction and application of mixing enthalpy matrix for high-entropy alloys Xiao-Rong Wang, Zhao-Qin Wang, Peng He & Tie-Song Lin	141
Effect of minor Zr addition on γ' and η phase precipitation and tensile properties of A286 superalloy Masoumeh Seifollahi, Seyed Hossein Razavi, Shahram Kheirandish & Seyed Mahdi Abbasi	147
Use of basalt fiber reinforced polymer bars in the development of hybrid beam – investigations on the flexural response Smitha Gopinath, P Nachiappan, A Ramachandra Murthy & Nagesh R Iyer	153
Properties of concrete containing waste foundry sand for partial replacement of fine aggregate in concrete M Nithya, A K Priya, R Muthukumaran & G K Arunvivek	162

Author Index

Abbasi Seyed Mahdi	147	Murthy A Ramachandra	153
Arunvivek G K	162	Muthukumaran R	162
Basak Hedayim	115	Nachiappan P	153
Choudhary Shobhna	123	Nandan Brij	133
Dhatarwal Priyanka	123	Nithya M	162
Dwivedi Shashi Prakash	133	Priya A K	162
Gopinath Smitha	153	Rao K Mohana	107
He Peng	141	Rao N Mohan	107
Iyer Nagesh R	153	Razavi Seyed Hossein	147
Kheirandish Shahram	147	Seifollahi Masoumeh	147
Kumar Ajay	133	Sengwa R J	123
Kumar P Ravi	107	Sonmez Fikret	115
Lin Tie-Song	141	Srivastava Alok	133
		Wang Xiao-Rong	141
		Wang Zhao-Qin	141
		Yuce Erkan	97