

CONTENTS

<i>Resonant Radiation of Boundary with a Travelling Distribution of the Field</i> Vladimir Arabadzhi	01
<i>An Overview of Cyber Security Considerations and Vulnerabilities in Critical Infrastructure Systems and Potential Automated Mitigation – A Review</i> Roberto Mazzolin, Asad Madni	09
<i>Effective Approach Experience for Practical Training using Web-Based Platforms and Tools in the Context of the COVID-19 Pandemic</i> Radoslav Hrishev	22
<i>Study on Stability Analysis of Rectangular Plates Section Using a Three-Dimensional Plate Theory with Polynomial Function</i> Festus Chukwudi Onyeka, Chidobere David Nwa-David, Thompson Edozie Okeke	28
<i>A Review on the Effect of Varied Sand Types in Concrete at High Temperature</i> Samya Hachemi, Zine Elabidine Rahmouni	38
<i>Evolutionary Learning of Fuzzy Rules and Application to Forecasting Environmental Impact on Plant Growth</i> Chris Nikolopoulos, Ryan Koralik	48
<i>Factors Determining Political Socialization in Young People (A Case of Pakistani University Students)</i> Salita, Khoula Maryam	54
<i>Design and Analysis of Flat Belt Conveyor for Segregation of Defective Products</i> Yash Patil, Shivraj Patil, Suhas Gawade, Vaishnav Shinde, Samidha Jawade	62
<i>Modelling and Comparative Study for Deep Groove Ball Bearing Based on Structural Analysis using FE Simulation</i> Avinash Galande, Swanand Pachpore, Ashish Pawar	68
<i>System Identification of FIR Filters</i> Sudheesh Kannur Vasudeva Rao, Kiran, Naveen Kumar, Mahadevaswamy	74
<i>Methodology for Learning Mathematics Based on Collaborative Work with the Support of ICT Tools and Virtual Environments of the UCN Campus</i> Carlos Esteban Huerta Briones	81
<i>Image Processing and Data Storage for Fire Alarm</i> Muhammad Zia ur Rahman, Saba Waseem, Sidra Riaz, Zainab Riaz, Aneeq Asif, Ayesha Saddiqa, Ali Asghar	87

<i>An Elaborate Breakdown of the Essentials of Biogas Production</i> Abdulhalim Musa Abubakar, Kiman Silas, Mohammed Modu Aji	93
<i>Human-Computer Interaction for Older Adults – a Literature Review on Technology Acceptance of eHealth Systems</i> Awais Ahmad, Peter Mozelius	119
<i>Determining the Parameters of the Sine-Wave Filter Factors Affecting Filtration Quality</i> Pustovetov Mikhail	127
<i>Utilization of Date Tree Leaves Biomass for the Removal of Heavy Metals from Water</i> Kiman Silas, Aliyu B. Ngulde, and Habiba D. Mohammed	137
<i>MC-SPWM and MC-THIPWM Methods for Symmetric and Asymmetric Design of CHB-MLI: A Study</i> Jigneshkumar Patel, Vijay Sood	148
<i>An Extreme Learning Machine for Blood Pressure Waveform Estimation using the Photoplethysmography Signal</i> Gonzalo Tapia, Rodrigo Salas, Matías Salinas, Carolina Saavedra, Alejandro Veloz, Alexis Arriola, Steren Chabert, Antonio Glaría	161