

CONTENT

Section Power and electrical engineering

1.	UNDERSTANDING TIME-FREQUENCY REPRESENTATIONS USING EXCEL <i>Andrea Amalia Minda, Nicoleta Gillich, Cristinel Popescu, Gilbert-Rainer Gillich</i>	13
2.	APPLICATION FOR SIMULATING AND ANALYSIS OF A SERIAL R-L-C CIRCUIT <i>C. Hațiegan, M.D. Stroia, C. Popescu, C.M. Muscai</i>	20
3.	MODELING AND SIMULATION OF HEAT TRANSFER IN ANSYS IN A ROOM OF A HOUSE <i>Mihaela Molnar, Eugen Răduca, Ana-Maria Budai, Silvia Teodora Orbai</i>	25
4.	THE VARIATION OF TEMPERATURE MEASURED FOR HEAT EXCENGER <i>Eugenia Adriana Stăncuț, Corina Dana Cernăianu</i>	31
5.	POSSIBILITIES TO RECYCLE THE BOTTOM ASH FROM COAL FIRED BOILERS. PART I. METHODOLOGY <i>Mihai Cruceru, Bogdan Diaconu, Lucica Anghelescu</i>	36
6.	POSSIBILITIES TO RECYCLE THE BOTTOM ASH FROM COAL FIRED BOILERS. PART II. RESULTS <i>Mihai Cruceru, Lucica Anghelescu, Bogdan Diaconu</i>	42
7.	ANALYSIS OF “BLACK GOLD” - COAL <i>Adriana Tudorache, Josef Timmeberg, Liviu Marius Cîrfină</i>	46
8.	THE USE OF WASTE FROM ENERGY INDUSTRY- NEW OPPORTUNITIES WITHIN GREEN DEAL CONTEXT <i>Luminița Georgeta Popescu</i>	51
9.	COMPARATIVE STUDY OF THE CALCULATION OF ERRORS IN ELECTRIC ARC WELDING IN X60 STEEL SHIELDING GAS MEDIUM <i>Cîndea L., Iancu V.</i>	57
10.	EXERGY ANALYSIS OF POWER EQUIPMENT – PART I: GENERAL EXERGY BALANCE <i>Cristinel Racoceanu</i>	61
11.	EXERGY ANALYSIS OF POWER EQUIPMENT – PART II: EXERGY EFFICIENCY OF THE COMBUSTION PROCESS <i>Cristinel Racoceanu</i>	65

12. GRAPH THEORY APPLICATION IN PLANNING POWER EQUIPMENT MAINTENANCE OPERATIONS <i>Bogdan Diaconu, Mihai Cruceru, Lucica Anghelescu, Marius Eremia Vlaicu Popa</i>	69
13. VERIFICATION OF POWER TRANSFORMERS VECTOR GROUP BY MEANS OF A SIMPLE AND PRECISE PROCEDURE <i>Bogdan Diaconu, Mihai Cruceru, Lucica Anghelescu, Rodica David</i>	73
14. ELECTROSTATIC PRECIPITATOR PHYSICAL MECHANISMS – DEUTSCH MODEL <i>Lucica Anghelescu, Mihai Cruceru, Bogdan Diaconu</i>	77
15. BIOMASS AS A FUEL FOR COAL-FIRED BOILERS. CASE STUDY – ROVINARI THERMAL POWER PLANT <i>Lucica Anghelescu, Bogdan Diaconu, Mihai Cruceru</i>	81

SECTION QUALITY MANAGEMENT

16. CONSIDERATIONS ON ONLINE ENGINEERING EDUCATION IN THE COVID- 19 PANDEMIC <i>Eugen Răduca, Cristinel Popescu, Codruța-Oana Hamat*, Mihaela Molnar, Ileana Rotaru, Roberta Răduca</i>	85
17. POSSIBLE METHODS OF MANAGEMENT AND DEVELOPMENT COMPANY <i>Amelia Boncea</i>	91
18. STUDY CONCERNING THE QUALITY TOOL USE FOR THE BOLTS QUALITY IMPROVEMENT <i>Liliana Luca</i>	97