

CUPRINS

SECȚIUNEA I

NAVIGAȚIE ȘI TRANSPORT MARITIM..... 3

1. FISHING IN THE BLACK SEA AREA – LEGAL PROVISIONS
Univ. Assistant Ph.D. candidate Oana ADASCALITEI, Maritime University In
Constantza 5
2. IMO ACTIVITIES TO ENHANCE MARITIME SECURITY
S.L. drd. Paulica Constantin Arsenie Maritime University Constantza 15
3. VERIFICATION AND CERTIFICATION OF SHIPSWOMEN ON BOARD TEN
YEARS OF THE IMO WOMEN IN DEVELOPMENT PROGRAMME (PART I)
S.L. drd. Paulica Constantin Arsenie Maritime University of Constantza 23
4. VERIFICATION AND CERTIFICATION OF SHIPSWOMEN ON BOARD TEN
YEARS OF THE IMO WOMEN IN DEVELOPMENT PROGRAMME (PART II)
S.L. drd. Paulica Constantin Arsenie Maritime University of Constantza 29
5. HOW A NUMBER OF ATMOSPHERIC ELEMENTS INFLUENCE THE HUMAN
ORGANISM'S BEHAVIOUR
Alina Boștină Maritime University of Constantza 35
6. COASTAL NAVIGATION WHEN INTENSIFYING METEO-MARITIME
NATURAL HAZARDS
Șef Lucrări Drd. DUMITRU BRÎNZĂ Maritime University of Constantza 41
7. WEB-ENABLED SIMULATION-PART I
Assoc. Prof. Phd. Laurentiu CHIOTOROIU, Constanta Maritime University
Lecturer Phd. Candidate Gabriel RAICU, Constanta Maritime University 51
8. WEB-ENABLED SIMULATION-PART II
Assoc. Prof. Phd. Laurentiu CHIOTOROIU, Constanta Maritime University
Lecturer Phd. Candidate Gabriel RAICU, Constanta Maritime University 61
9. THE LOGISTIC MANAGEMENT INTO DYNAMIC MARITIME MARKET
Univ. Lect. Drd. Florin Iordănoaia, Maritime University Constantza. 69
10. A POINT OF VIEW ON WOMEN REPRESENTATION IN ROMANIAN
MARITIME SECTOR
Assoc. Prof. Dr. Feiza MEMET, Constantza Maritime University / Depart. Of
Marine Engineering 75
11. RULES REGARDING THE TRANSPORT OF DANGEROUS GOODS ON
DANUBE(ADN-D)-THE PROFESSIONAL TRAINING OF EXPERTS ON
BOARD OF SHIPS THAT TRANSPORT DANGEROUS GOODS
Drd. eng. DOINA MUNTEANU, CERONAV Constanta subunit Galati
Drd. deck eng. DAN STELIAN POPA, CERONAV Constanta subunit Galati 85
12. THE MAJOR PROBLEMS FOR NAVIGATION IN THE TURKISH STRAITS
Nicoleta Parască, Constanta Maritime University, 89

	Nicolae BUZBUCHI, Liviu STAN, Constantza Maritime University.....	185
26.	“NEMO” KIT FOR PROVIDING BUOYANCY AND STEERING OF DACIA 1300 CAR IN WATER TRAVEL Alexandru Caian, student; Teodor Patrichi, student; Laurentiu Manea, Prof.Univ,Ph.D; Ilie Patrichi Associate Prof.Univ.Ph.D; Adriana Manea, Prof.Univ ,Ph.D; Victor Caian Captain; “Ovidius” University – Constantza, Mechanical Engineering Faculty	193
27.	THE VARIATIONAL FORM OF THE STEADY STATE LINEAR HEAT CONDUCTION AND ITS APPLICATION IN FINITE ELEMENT ANALISYS Ion CALIMANESCU, Nuclear Power Plant Cernavoda, . Nicolae BUZBUCHI, Constantza Maritime University	201
28.	THE ENVIRONMENTAL PRESSURE INFLUENCE ON AN OPEN-CIRCUIT BREATHING APPARATUS Anca Constantin, “Ovidius” University of Constanta Tamara Stanciu, Diving Center of Constanta	207
29.	ESTIMATION OF RESISTENCE CAPACITY FOR THERMIC CRACKING FOR THE MATERIALS OF SLIDING OF MECHANICAL SEALS Lecturer eng. Grigorescu Lucian – “Merchant University” of Constanta. Associate prof. Ph. D. Zidaru Nicolae - “Merchant University” of Constanta	215
30.	STATISTIC ANALYSIS OF FAILURE’S CAUSES OF THE MECHANICAL SEALS (WITH SLIDING RINGS) Lecturer eng. Grigorescu Lucian - “Merchant University” of Constanta Associate prof. Ph. D. Zidaru Nicolae - - “Merchant University” of Constanta.....	221
31.	EXERGY ANALYSIS AND THE ENVIRONMENT Part I Assoc. Prof. Dr. Feiza MEMET Constantza Maritime University / Depart. Of Marine Engineering,	225
32.	EXERGY ANALYSIS AND THE ENVIRONMENT Part II Assoc. Prof. Dr. Feiza MEMET Constantza Maritime University / Depart. Of Marine Engineering,	233
33.	MOLD ASSEMBLY DESIGN IN PROENGINEER Author: Dipl. Eng. Alexandra NIȚĂ.....	237
34.	APPLICATIONS AND SEWAGE PLANTS Prof.dr.ing. Mariana PANAITESCU, Maritime University of CONSTANTA.....	247
35.	EFFICIENT MULTI-STEP WASTEWATER TREATMENT PROCESS Assist.prof.dr.ing. Viorel PANAITESCU, Maritime University of CONSTANTA	255
36.	THE STRENGTH STRUCTURE AND THE STRESSES OF SHELL PLATING MADE OF FIBREGLASS REINFORCED PLASTICS (FRP) Authors: conf.univ.dr.ing. ILIE PATRICHI – Academia Navala “Mircea cel Batran” conf.univ.dr.ing. IORDAN NOVAC – Universitatea Maritima Constanta conf.univ.dr.ing. BEAZIT ALI - Academia Navala “Mircea cel Batran” Constanta	265
37.	THE FATIGUE TESTING EQUIPMENT AND THE METHOD USED FOR A SHELL PLATING ELEMENT (I) Authors: conf.univ.dr.ing. ILIE PATRICHI – Academia Navala “Mircea cel Batran” conf.univ.dr.ing. IORDAN NOVAC – Universitatea Maritima Constanta	

conf.univ.dr.ing. BEAZIT ALI - Academia Navala "Mircea cel Batran" Constanta	275
38. THE FATIGUE TESTING EQUIPMENT AND THE METHOD USED FOR A SHELL PLATING ELEMENT (II)	
Authors: conf.univ.dr.ing. ILIE PATRICHI – Academia Navala "Mircea cel Batran"	
conf.univ.dr.ing. IORDANNOVAC – Universitatea Maritima Constanta	
conf.univ.dr.ing. BEAZIT ALI - Academia Navala "Mircea cel Batran" Constanta	283
39. DECOMPRESSION DIAGRAMS – USUAL AND NEW TENDENCIES	
Resch. Eng. Tamara Stanciu, Diving Center Constantza	
Assist. Prof. Ph.D. Anca Constantin, Ovidius University Constantza	289
40. HOW TO USE KINEMATIC RESTRICTIONS IN INVOLUTE PARALLEL SPUR GEARING DESIGN	
Assoc. prof. Ph.D. eng. Nicolae Zidaru, Constantza Maritime University	
Lecturer eng. Mihaela Barhalescu, Constantza Maritime University	297
41. BAYES' THEOREM APPLICATION FOR SOME RELIABILITY CHARACTERISTICS DETERMINATION	
Assoc. prof. Ph.D. eng. Nicolae Zidaru, Constantza Maritime University	
Lecturer eng. Mihaela Barhalescu, Constantza Maritime University	307

SECȚIUNEA III
INGINERIE ELECTRICĂ 313

42. MULTIPLE DESCRIPTION CODING: COMPRESSION MEETS THE NETWORK	
Dr. Eng. Constantin ANTON – University of Pitești	
Drd. Eng. Toni-Cristian VOICULESCU – University of Pitești	
Drd. Eng. Dumitru BREBEANU – University of Pitești	315
43. SOME CONSIDERATIONS REGARDING THE MESUREMENT OF POWER IN A DEFORMED ELECTRICAL SYSTEM	
Nicolae BORDEA, Maritime University, 104, Mircea cel Batran, Constanta, Romania	
Vasilica BORDEA, Naval Academy, 2, Fulgerului, Constanta, Romania	321
44. THE TRANSPORTATION PETRI NETWORK MODEL OF THE PROBLEM OF SHIPS DISTRIBUTION FOR MAXIMUM PROFIT ACHIEVEMENT	
Vasilica BORDEA, Naval Academy, 2, Fulgerului, Constanta, Romania	
Nicolae BORDEA, Maritime University, 104, Mircea cel Batran, Constanta, Romania	327
45. THE DOUBLE-DRAIN MAGNETOTRANSISTORS	
Prof. dr. ing. CĂRUNTU GEORGE Constanta Maritime University	335
46. THE NOISE AND THE DETECTION LIMIT FOR MAGNETIC MICROSENSORS	
Prof. dr. ing. CĂRUNTU GEORGE, Constanta Maritime University	345
47. MULTICHANNEL ELECTRO-HYDRAULIC EXECUTOR	
S.L. dr. ing. Stefan DORDEA Maritime University of Constantza	353

48. AUTOMATIC COMPUTED COURSE ELECTRONIC SYSTEM (A.C.C.E.S.) S.L. dr. ing. Stefan DORDEA Maritime University of Constantza	359
49. BI-DIRECTIONAL MULTICHANNEL ELECTRO-HYDRAULIC EXECUTOR S.L. dr. ing. Stefan DORDEA Maritime University of Constantza	363
50. THE INTERFACE CHARGE DENSITY OF HALL PLATES Prof. dr. ing. DRĂGULINESCU MARIN Prof. dr. ing. DRAGOMIRESCU MARIETA, Prof. dr. ing. DRAGOMIRESCU OVIDIU "Politehnica" University Bucharest, 1-3, Iuliu Maniu Blvd, Bucharest, Phone 40 1 41003300.....	369
51. THEORETICAL ASPECTS CONCERNING THE ICE KINDS AND THEIR FORMATION Diana ENESCU "VALAHIA" University of Târgoviște, Electrical Engineering Faculty, Electrical Power Engineering Department.....	377
52. A NEW FIELD SOLUTION APPLIED TO THE INDUCTION MOTOR ELECTROMAGNETIC FIELD PROBLEMS Conf. Dr. Ing. Marcel IONEL, Universitatea Valahia Târgoviște Ș.L. Dr. Ing. Mihail-Florin STAN, Universitatea Valahia Târgoviște.....	381
53. SIGNAL COMPRESSION BY SYNTHESIS CODING Prof. Ph. Dr. Eng. Mariana JURIAN – University of Pitești Dr. Eng. Constantin ANTON – University of Pitești Drd. Eng. Toni-Cristian VOICULESCU – University of Pitești	387
54. SPEECH ANALYSIS BY PREDICTION METHOD Prof. Ph. Dr. Eng. Mariana JURIAN –University of Pitești Drd. Eng. Dumitru BREBEANU –University of Pitești Drd. Eng. Valentin BOȘCĂNICI –University of Pitești	395
55. MODELS OF BEHAVIOR OF MAGNETIC MATERIALS Authors: Drd.ing. Otilia NEDELICU - Valahia University of Targoviste; Drd.ing. Nicoleta BANU - Valahia University of Targoviste.....	403
56. ERROR-CORRECTING CODES USED IN DISTRESS MESSAGE TRANSMITTED BY 406 MHz EPIRB Ph.D. CODRUTA PRICOP, Department of Naval Electrotechnics, Electronics and Computer Science, Maritime University Constanța, Constanța, 8700, Romania	409
57. DIFFERENT TYPES OF BRUSHLESS D.C. MOTORS OPTIMISATION Ș.L. Dr. Ing. Mihail-Florin STAN, Universitatea Valahia Târgoviște Conf. Dr. Ing. Marcel IONEL, Universitatea Valahia Târgoviște.....	417
58. MARINE ELECTRIC PROPULSION DIRECT DRIVE MULTI PHASE ASYNCHRONOUS MOTORS Ion ZAHARIA Constanta Maritime University email: izahar@imc.ro Rodica ZAHARIA Constanta "Tomis" Technical College 153 Tomis Street, Romania	427

SECȚIUNEA IV

ȘTIINȚE MATEMATICE ȘI FIZICĂ..... 435

59. THE CORRELATION BETWEEN THE JET STRUCTURE AND THE IMPACT
PARAMETER IN THE RELATIVISTIC NUCLEAR COLLISIONS
Studenti: Cristian Braia, Ana Dumitrascu
Profesori îndrumători: Dănuț Argintaru, Daniela Moscalu 437
60. SOFTWARE SECURITY
Claudiu CHIRU "Spiru Haret" University Unirii nr. 32-34, Constanta, Romania
Eliodor CONSTANTINESCU, Constanta Maritime University, 104 Mircea Street,
Romani..... 443
61. eEUROPE BENCHMARKING INDICATORS
Eliodor CONSTANTINESCU, Constanta Maritime University, 104 Mircea Street,
Romania, Claudiu CHIRU, "Spiru Haret" University, Unirii nr. 32-34, Constanta,
Romania 451
62. METHOD AND APPLICATION OF TESTING THE KNOWLEDGE LEVEL IN A
CERTAIN STUDYING AREA
Lector drd. Crișcotă Șerban, State University of Pitești 457
63. APPLICATION OF LAGRANGIAN FORMALISM IN FREE VIBRATION'S
STUDY OF SUSPENDED CABLES
Deleanu Dumitru, Maritime University of Constantza 465
64. LIMITS OF THE NONLINEAR SYSTEM'S LINEARIZATION
Deleanu Dumitru, Maritime University of Constantza 473
65. NUMERICAL COMPUTATION OF PERIODIC SOLUTIONS FOR A NON-
AUTONOMOUS SYSTEM
Deleanu Dumitru, Maritime University of Constantza 479
66. QUASINILPOTENT EQUIVALENCE OF DECOMPOSABLE OPERATORS
(first part)
by Simona Fotescu 485
67. QUASINILPOTENT EQUIVALENCE OF DECOMPOSABLE OPERATORS
(second part)
by Simona Fotescu 493
68. EXTERNAL APPROXIMATION SCHEMES
Letiția ION Constanta Maritime University 501
69. THE FREDHOLM ALTERNATIVE FOR NONLINEAR MAPPINGS
Letiția ION Constanta Maritime University 507
70. CONTINUITY OF FUZZY MULTIVALUED FUNCTIONS
Ismat Beg, Lahore University of Management Science
Ioan Mircea Popovici, Maritime University of Constantza 513
71. THE THRESHOLD CHARACTER OF SUPERRADIANCE IN TWO-LEVEL
ATOMIC SYSTEMS
Daniela Moscalu, Department of Physics, The Maritime University, Constantza ... 519

72. PRICE EQUILIBRIUM AND COMPLEMENTARITY	
Ioan-Mircea Popovici & Eliodor Constantinescu, Maritime University of Constantza	
.....	523
73. THE PORT INFRASTRUCTURE INVESTMENT PROBLEM	
Lect. univ. dr. SIMONA UTUREANU, "Ovidius" University of Constantza	531