

CONTENTS

I. Baran, O. Duda MATHEMATICAL MODELING OF TEMPERATURE FIELD OF CYLINDRICAL UNDERGROUND STORAGE	5
N. Gashchyn, Yu. Gladyo BALANCING OF AUGER SHAFTS OF ORGANIC FERTILIZERS SPREADERS	6
R. Zharovskyy CONSTRUCTING A MODEL OF USEFUL SEISMIC SIGNALS	7
N. Zagorodna, O. Nazarevych, M. Fryz PECULIARITIES OF REGRESSION ANALYSIS APPLICATION IN GAS CONSUMPTION PROGNOSIS PROBLEMS	8
V. Koval, R. Korol, R. Trembach STABILIZATION OF WHEELED MOBILE ROBOT	9
S. Lupenko, N. Lutsyk, N. Stadnyk MODEL WITH DOUBLY STOCHASTICITY IN PROBLEMS OF THE MATHEMATICAL MODELING AND CYCLIC PROCESSES AND SIGNALS ANALYSIS	10
V. Mykhaylyshyn, H. Semenyshyn SIMULATION OF TEMPERATURE FIELDS IN THIN PLATES	11
M. Mykhaylyshyn, B. Holovatyy REDUCTION OF RESIDUAL TECHNOLOGICAL STRESSES	12
M. Petryk, D. Mykhalyk, O. Petryk MATHEMATICAL MODELING OF MASS TRANSFER PROCESSES IN MULTICOMPOSITE FILMS	13
M. Stadnyk TWO-CHANNEL STEADY-STATE VISUAL EVOKED POTENTIAL IN THE MATHEMATICAL MODELS CONSTRUCTION OF THE OPHTHALMOLOGICAL INFORMATION SYSTEM	14
N. Stadnyk, S. Lupenko COMPARING THE MODELS AND METHODS OF ANALYSIS OF CYCLICAL ECONOMIC PROCESSES THAT ARE INTERRELATED	15
O. Shabliy, M. Mykhaylyshyn, B. Khomitsky INVESTIGATION OF THE STRESS-STRAIN STATE OF A GIVEN LENGTH OF THE CYLINDER, WHICH IS UNDER ITS OWN WEIGHT	16

P. Yasniy, S. Glado, V. Skochylyas FINITE ELEMENT MODELING OF THE HOLES BURNISHING PROCESS IN THE PLATES OF ALUMINUM ALLOY	17
Yu. Gladio, O. Duda, O. Matsiuk FUNCTIONAL SCHEME OF AUTOMATED SYSTEM FOR ACCOUNTING AND CONTROL OF TELEMETRY PARAMETERS OF WATER FLOW	18
V. Gotovych, S. Marcenko MOBILE HARDWARE AND SOFTWARE DEVICE OF POWER QUALITY MONITORING	19
V. Hrytsyk, V. Hrytsyk, L. Hrytsyk INFORMATION-ANALYTICAL SYSTEMS FOR HUMAN CANCERS FORMATION PREVENTION BY USING DIGITAL COLPOSCOPY AS MODERN SOLUTION AT DIFFERENT STAGES OF CANCER	20
V. Dovhalyuk, L. Rohatynska AUTOMATED CONTROL SYSTEM OF ACADEMIC PROCESS IN GENERAL SCHOOL	21
T. Mykhailovych INFORMATION SYSTEM OF WATER PROVISION MANAGEMENT	22
V. Oleksyuk DEPLOYMENT OF THE PRIVATE CLOUD IN UNIVERSITY	23
M. Pryjmak, S. Proshyn MARKOV'S PROPERTY OF POWER-SUPPLY SYSTEMS	24
G. Shymchuk REVIEW METERS OF WATER AND THE BENEFITS OF STANDARDIZATION	25
R. Trembach, I. Pazdriy, B. Trembach, V. Matiyash, Y. Banakh COMPUTERIZED GONIOPHOTOMETRY SYSTEM	26
I. Vitruk, A. Lutskiv APPROACHES FOR SOLVING PROBLEM OF BOOLEAN FUNCTION'S SATISFIABILITY IN PARALLEL-DISTRIBUTED COMPUTER SYSTEMS	27
S. Hrabovska, S. Lupenko ANALYSIS METHODS FOR DATA COMPRESSION	28
S. Hrabovska, S. Lupenko COMPARISON CODECS G729 AND G711 AUDIO CODING	29
Z. Zaverukha, H. Osukhivska ROUTING PROCESS ALGORITHMS ANALYSIS IN COMPUTER NETWORKS	30

M. Krutyh, A. Lutskiv	COMPUTER SYSTEM FOR ALGEBRAIC CRYPTANALYSIS OF AES CIPHER	31
M. Kubyshyn, H. Osukhivska, T. Lobur	TRAFFIC LOADS RESEARCH IN COMPUTER NETWORKS	32
O. Lepak	DEVELOPMENT OF THE EXPERT SYSTEM FOR EVALUATION OF LONG OPERATED OIL PIPELINE OPERABILITY AND THE DESTRUCTION RISK	33
G. Polishchuk, S. Lupenko	THE RESEACH OF DATA TRANSMISSION TECHNOLOGIES IN TELEMEDICINE SYSTEMS	34
A. Velhach	CLOUD SERVICES AS AN EFFECTIVE TOOL FOR TESTING OF SITE CROSSBROWSERNESS.	35
A. Holovatyy	USING OPEN-SOURCE ELECTRONICS PROTOTYPING PLATFORM ARDUINO FOR LEARNING THE BASICS OF EMBEDDED SYSTEMS PROGRAMMING FOR SOFTWARE ENGINEERING STUDENTS	36
I. Baran, O. Duda, O. Majeviskiy	EXPANDING OF FUNCTIONALITY OF PHP FOR CHECKING OF THE RECIVED DATA FROM A USER	37
I. Bodnarchuk	SELECTION OF THE SOFTWARE ARCHITECTURE DECISION ON THE BASE OF QUALITY REQUIREMENTS	38
O.Yashchyk	FORMING OF SYSTEM-LOGICAL THOUGHT IN THE STUDYING PROCESS OF BASICS OF ALGORYTHMIZATION AND PROGRAMMING WITH ASSISTANCE OF SYSTEMS OF COMPUTER MATHEMATICS	39
S. Lupenko, B. Khomiv	VERIFICATION OF MODELS AND METHODS FOR ASSESSING OPINION	40
Ya. Vasylenko	ON THE STRUCTURE OF COMPETENCE OF IT PROFESSIONALS IN THE COLLECTIVE DEVELOPMENT OF SOFTWARE PRODUCTS	41
Ya. Kinakh	USING OF CRYPTOGRAPHIC TOOLS FOR SOFTWARE NEUTRALIZATION OF AGGRESSIVE TRAFFIC	42

Z. Zaverukha, H. Osukhivska PERSON AUTHENTICATION METHODS ANALYSIS USING BIOMETRIC INDICATORS	43
M. Karpinski, A. Lyapandra DEVELOP PROTECTION OF INFOCOMMUNICATION BASED FPGAS	44
M. Karpinski, V. Chyzh, S. Balaban SECURITY IMPROVEMENTS OF WIRELESS INFORMATIONAL SYSTEMS USING METHOD OF INFORMATIONAL NODES' SIGNAL ANALYSIS	45
R. Kozak SECURITY OF WIRELESS PERIMETER IN COMPUTER NETWORK	46
S. Lupenko, N. Shabliy ОГЛЯД ТА ПОРІВНЯЛЬНИЙ АНАЛІЗ МЕТОДІВ БІОМЕТРИЧНОЇ АУТЕНТИФІКАЦІЇ ОСОБИ ЗА КЛАВІАТУРНИМ ПОЧЕРКОМ	47
I. Fartushok THE INFORMATION SECURITY: PRODUCTION RISKS AND EDUCATIONAL OBJECTIVES	48
U. Yatsykovska, M. Kinah EFFECT OF ATTACKS TO REFUSE SERVICE TO COMPUTER NETWORKS	49
Yu. Dovhopyaty CONDUCTANCE ELECTRONS IN METALS: BAND THEORY AND REAL PROPERTIES	50
R. Gorbatyuk INFORMATION TECHNOLOGY EDUCATION IN THE TRAINING OF ENGINEERS, TEACHERS	51
O. Kramar APPLICATION OF NUMERICAL METHODS FOR PHYSICAL PROBLEMS SOLVING IN STRONGLY CORRELATED ELECTRON SYSTEMS	52
V. Kul'chytsky FORMATION FUNDAMENTAL PHYSICAL CONCEPTS OF "ELECTROMAGNETIC INTERACTION" AND "ELECTROMAGNETIC FIELD" IN THE STUDY OF SPECIAL RELATIVITY IN STUDENTS	53
Yu. Nikiforov, B. Kovalyuk, O. Sitkar MODEL OF ROLE CARBON NANOTUBES ORIENTATION DURING IMPLANTATION INTO SOLID SUBSTRATE UNDER THE INFLUENCE OF INTENSE LASER PULSES	54

O. Rokitskiy ZINOVIIY HRAPLIVIIY	55
Yu.Skorenkyy, O. Kramar INFLUENCE OF THE DENSITY OF STATES FORM ON ORBITAL ORDERING IN MODEL OF DOUBLY DEGENERATE ENERGY BAND	56
Yu.Skorenkyy IMPROVEMENTS OF DISTANT LEARNING TOOLS IN THE CONTEXT OF NEW OPEN ONLINE COURSES	57
T. Sitkar, O.Sitkar INTELLECTUAL TEACHING SYSTEM AS A FORM OF KNOWLEDGE FORMING	58
O.M. Shabliy, O.I. Korol, L.I. Tsymbalyuk, M.S. Bazar RESEARCH TEMPERATURE FIELD IN THE DETAILS IN CASES WHERE TEMPERATURE DOES NOT EXCEED THE CURIE TEMPERATURE	59
M.S. Bazar, O.M. Shabliy, Ch.V. Pulka, L.I. Tsymbalyuk O.I. Korol INVESTIGATION THE CURRENT IN THE INDUCTOR INDUCTION HEATING DEVICES	60