## **CONTENTS**

T1 Fibres and Yarns; Chemical Technologies; Nanotechnologies	259
STUDY OF THE ELECTRIC RESISTANCE VARIATION OF THE POLYESTER FIBRES COATED BY AG IN VA Hristo Hadjiev, Ivelin Rahnev and Philipp Philippov	CUUM 261
ANTIMICROBIAL ACTIVITY OF COTTON FABRICS TREATED WITH METALLODENDRIMERS Desislava Staneva, Evgenia Vasileva-Tonkova, Ivo Grabchev	262
SUBLIMATION TRANSFER PRINTING ON DOUBLE LAYER FABRIC (POLYESTER/COTTON) Georgi Georgiev, Gaetano Rimini, Desislava Staneva and Ivelin Rahnev	263
INVESTIGATION OF THE TENSILE PROPERTIES OF BRAIDED BI-, TRIAXIAL AND UNIDIRECTIONAL THERMOPLASTIC GLASS FIBRE / POLYPROPYLENE COMPOSITES Katalin Küster, Yordan Kyosev	264
CELLULOSE ACETATE/POLYETHYLENE GLYCOL ANTIBACTERIAL FIBROUS MATERIALS PREPARED BY ELECTROSPINNING* Orhan Mola, Mariya Spasova, Petya Tsekova, Nevena Manolova, Iliya Rashkov, Vesselin Kussovski	265
MODELING AND CONSTRUCTION OF A LADIES' BOOT AND IMPLEMENTATION IN THE PRODUCTION OF "CHRISTIAN SHOES" LTD - GABROVO Milena Krusteva, Evtimova Rozeta, Koleva Margarita	266
COMPARISON OF MINERAL TANNING AGENTS IN THE PROCESSING OF ENZYME TREATED SHEEPSKI Margarita Koleva, Ivanova Dimitrina, Vasileva-Tonkova Evgenia, Staneva Desislava	N 267
STUDYING THE EFFECT OF THE COLLECTOR GEOMETRY ONTO MECHANICAL PROPERTIES OF ELECTROSPUN POLY(3-HYDROXYBUTYRATE) MATERIALS Mariya Spasova, Irena Borisova, Olya Stoilova, Nevena Manolova, Iliya Rashkov	268
CELLULOSE ACETATE FIBROUS MATERIALS LOADED WITH CURCUMIN "IN" OR "ON": PREPARATION, ANTIBACTERIAL AND ANTITUMOR ACTIVITIES Mariya Spasova, Petya Tsekova, Nevena Manolova, Iliya Rashkov, Nadya Markova, Ani Georgieva and Reneta Toshkova	
STUDY THE IMPACT OF NANOPOWDERS B4C ON THE BALLISTIC CHARACTERISTICS OF ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE Petya Gencheva, Krasa Kostova, Sasho Aleksandrov	270
ORGANIC PIEZO MATERIALS AND APPLICATION IN CLOTHS Pavlik Rahnev, Dimitrina Kiryakova, Silviya Letskovska	272
TENSILE RESPONSE OF ARAMID-POLYAMIDE COMPOSITE MATERIALS WITH DIFFERENT FILLING DEGREES AND FIBRE ORIENTATION PRODUCED BY ADDITIVE MANUFACTURING Christoph Richter, Yordan Kyosev	273
TECHNOLOGY OF CIGS SOLAR CELLS FOR TEXTILE/CLOTHS APPLICATION Pavlik Rahnev, Silviya Letskovska, Kamen Seymenliyski	
NEW POSSIBILITIES FOR DESIGN AND FABRICATION OF TEXTILE PRODUCTS BY ADHESIVE BONDING / WELDING Nikolay Kolev, Desislava Staneva, Ivelin Rahnev	
T2 Textile Technologies: Spinning, Weaving, and Knitting	277
NEW WEAVING CONCEPT: MOTION CONTROL SYSTEM APPROACH Jean-Yves DREAN, Ramia ALMOHAMAD, Gerald BARBIER	279
STUDY OF BIJECTIVE RELATIONSHIP BETWEEN THE SINGLE AND BUNDLE COTTON FIBER MECHANICAL PROPERTIES Jean-Yves DREAN, Wafa MAHJOUB, Omar HARZALLAH, César SEGOVIA, Jean-Paul GOURLOT	280
INVESTIGATION ON THE MOISTURE MANAGEMENT PROPERTIES OF MULTILAYER WOVEN STRUCTU Diana Germanova-Krasteva, Veselina Petrova	JRES
DOUBLE WOVEN FABRIC WITH POLYESTER FIBROUS FACE FOR TRANSFER PRINTING Mariana Zheleztcheva, Lachezar Vasilev and Ivelin Rahnev	282
THE APPLICATION OF THE IREQ INDEX FOR ASSESSMENT OF THE THERMOPHYSIOLOGICAL COMFO LIMITS OF SLEEPING BAGS Radostina A. Angelova	
INVESTIGATION OF MECHANICAL COMFORT RELATED PROPERTIES OF MULTILAYER WOVEN ARAM STRUCTURES FOR PROTECTIVE TEXTILES Priscilla Reiners, Lin Shi	
STRESS IMPACT OF THE WARP THREADS FROM FANCY TWISTED YARNS ON THE DOUBLE-FACED STRUCTURE OF SINGLE-LAYER FABRICS Svetoslava Velikova, Danail Jordanov and Ivelin Rahnev	285

T3 Apparel Technology	287
DESIGN OF SWIMSUITS FOR WOMEN FROM ELASTOMERIC KNITWEAR Hristo Petrov	289
TECHNOLOGICAL SPECIFICATIONS OF DAMP - HEATING PROCESS OF CHEMICAL TEXTILE MATERIA Snezhina Andonova, Umme Capanuk	LS
T4 Textile art and Fashion Design	291
THE CLOTHING AS A SOCIAL STATUS SIGN Rafaela Rafaelova	293
WORD UP - TEXTILE DESIGN TREND Elena Yordanova Yankova	
TEXTILE PATTERN DESIGNS FOR CHILDREN: "FUNNY BIOLOGY" Adelina Popnedeleva, Ina Ivanova	294
AN APPLYING MODIFIED MORPHOLOGICAL IMAGE PROCESSING METHODS IN COLOUR IMAGE EDIT Lenko Erbakanov, Ivelina Vardeva, Liliya Staneva	
DESIGNS FOR DECORATING ON CHILDREN'S CLOTHING AND INTERIOR Margarita Barganska	296
MAJOR TRENDS IN THE RESEARCH AND DEVELOPMENT OF THE TECHNOLOGY IN THE FASHION INDUSTRY Nezabravka Popova-Nedyalkova	297
TEXTILE ART OF 57 BIENNALE IN VENICE Adelina Popnedeleva	298
EUROPE - SUI GENERIS, ISM Aleksandra Yanakieva	299
FASHION TRENDS AND FORECASTING Christina Savova	300
INFOGRAPHICS AS PART OF ADVERTISEMENT DESIGN Emilia Panayotova	301
EUROPE - SUI GENERIS, TREASURE Hristiyana Mutafchieva	302
ANALYSIS OF COLORS TRENDS IN FASHION Julieta Ilieva, Rositsa Petkova	303
THE APPEARANCE OF NEW FORMS OF EXPRESSION IN THE INTERPRETATION OF TEXTILE Katerina TSANEVA	304
NO MAN'S LAND Lyubomira Petsanova	305
TEXTILE, FORM AND CONTENT IN THE WORK OF MADAME GRÈS AND AZZEDINE ALAIA Nevena Yordanova	306
AN INVESTIGATION OF DESIGN OF 3D ELEMENTS ACCORDING TO THE LATEST FASHION TRENDS Tanya Peneva, Krasimira Radieva, Zlatina Kazlacheva, Petya Dineva, Julieta Ilieva	307
INTERPRETATION OF 3D BIOPRINTING IN TEXTILE TECHNIQUES AND SEWING TECHNOLOGIES Polina Georgieva Sotirova	308
MODERN TECHNOLOGIES AND CAD SYSTEMS FOR PRINTING ON TEXTILES Stoyan Bundjulov	309
FASHION STYLES OF SUBCULTURES FROM THE 80'S OF THE 20TH CENTURY Tatyana Hristova	310
EUROPE - SUI GENERIS, THE RED FIELDS Teodora Lazarova	311
FREQUENCIES, DIGITAL FAIRYTALES Teodora Angelova Vukodinova	312
COLLECTION FACE OFF Yunver Ali Kiose - Gavaldzhi	313
FASHION DESIGN OF LADIES' DRESSES WITH TWISTED DRAPERIES Petya Dineva, Julieta Ilieva, Zlatina Kazlacheva	314
FASHION TREND AND FASHION TRENDS MOVEMENT Nikolay Bozhilov	315

T5 Textile Machinery and Equipment	317
DETERMINATION OF THE KINEMATIC CHARACTERISTICS OF THE GROSSE EJP 4 KNIFE BOX DRIVE MECHANISM BY MEANS OF "MODEL METHODS" Roumen Roussev	319
PREVENTIVE VIBRATION CONTROL OF HARNESS MECHANISM OF WEAVING MACHINES WITH FLEXIBLE RAPIERS Kaloyan Dimitrov, Ivelin Rahnev	320
MODERNIZATION OF LIGHTING SYSTEMS IN A TEXTILE ENTERPRISE Plamen Tsankov, Milko Yovchev	321
THE PICANOL GROUP Rinaldo RADICE	322
TEX-TECHNIKA LTD Zornitsa Najdenova, Atanas Tzvetkov	323
T6 Textile Management, Marketing and Sustainability	325
IMPORTANCE OF THE TECHNOLOGICAL DOCUMENTATION ON THE SUSTAINABLE DEVELOPMENT OF SPINNING PRODUCTION Rossitza Krueger and Ivelin Rahnev	327
WORK RELATED MUSCULOSKELETAL DISORDERS AMONG YOUNG WOMEN IN THE TEXTILE INDUST PAIN NOW AND IN THE FUTURE TOO Bobby Joseph, N Angeline Gnanaselvam	
ENHANCEMENT OF COMPETITIVENESS IN CLOTHING INDUSTRY, BY MODERNIZING TECHNICAL EQUIPMENT Lalka Borisova, Veselina Paunova-Peneva	330
ISKRA LTD, PARVOMAI Marin Marinov	331
THE EU POLICY FOR THE GLOBALISED TEXTILE AND CLOTHING INDUSTRY: EVIDENCE FROM THE EUROPEAN GLOBALISATION ADJUSTMENT FUND Stela Baltova	
LIMITATIONS OF SOCIAL AUDIT AND CERTIFICATIONS Shivaprasad Shetty, Rossitza Krueger	334
T7 Innovations in Textile Education	335
METHODOLOGY FOR INITIAL PROFESSIONAL EDUCATION IN THE FIELD OF THE SEWING INDUSTRY Blagoyka Paleva-Kadiyska, Elena Blagova	
ACTUAL DEVELOPMENT OF THE OLDEST TEXTILE VOCATIONAL SCHOOL IN BULGARIA Lachezar Vasilev and Daniela Karamanova	338
JAQUARD WEAVING IN COLLECTIONS OF THE TEXTILE INDUSTRY MUSEUM IN SLIVEN Toni Dimitrova	339