# INTRODUCTION TO MICROELECTRONIC FABRICATION VOLUME

INTRODUCTION TO MICROELECTRONIC FABRICATIONMICROELECTRONIC ENGINEERING. VOLUME I. FABRICATION TECHNOLOGYTHE ELECTRICAL ENGINEERING HANDBOOK - SIX VOLUME SETINTRODUCTION TO MICROELECTRONIC FABRICATION PEARSON NEW INTERNATIONAL EDITIONMICROELECTRONIC DEVICE DATA HANDBOOK TEXT. -v. 2. IN VACUUM MICROELECTRONICS: VOLUME 509 INTRODUCTION TO MICROELECTRONIC FABRICATION 2/EMICROELECTRONIC DEVICE DATA HANDBOOK: Text. -v. 2. MANUFACTURER AND SPECIFIC DEVICE INFORMATIONENCYCLOPEDIA OF CHEMICAL PROCESSINGENCYCLOPEDIA OF CHEMICAL PROCESSING (ONLINE) SMART MATERIALS FABRICATION AND MATERIALS FOR MICRO-ELECTRO-MECHANICAL SYSTEMS: VOLUME 276ERDA ENERGY RESEARCH ABSTRACTSMECHANICAL BEHAVIOR OF MATERIALS AND STRUCTURES IN MICROELECTRONICS: VOLUME 226SCIENCE AND TECHNOLOGY OF MICROFABRICATION: VOLUME 76ERDA ENERGY RESEARCH ABSTRACTSPROCEEDINGS OF THE ... INTERNATIONAL MICROELECTRONICS SYMPOSIUMELECTRON-EMISSIVE MATERIALS, VACUUM MICROELECTRONICS AND FLAT-PANEL DISPLAYS: VOLUME 621MICROELECTRONICSMATERIALS RELIABILITY IN MICROELECTRONICS III: VOLUME 309MATERIALS RELIABILITY IN MICROELECTRONICS II: VOLUME 265 RICHARD C. JAEGER WILLIAM LIBEN RICHARD C. DORF RICHARD C. JAEGER ARINC RESEARCH CORPORATION WEI ZHU JAEGER ARINC RESEARCH CORPORATION, ANNAPOLIS, MD SUNGGYU LEE SUNGGYU LEE A. PETER JARDINE UNITED STATES. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION EPHRAIM SUHIR R. E. HOWARD UNITED STATES. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION EPHRAIM SUHIR R. E. HOWARD UNITED STATES. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION EPHRAIM SUHIR R. E. HOWARD UNITED STATES. ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION. TECHNICAL INFORMATION CENTER KEVIN L. JENSEN EDWARD KEONJIAN KENNETH P. RODBELL C. V. THOMPSON

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FOR COURSES IN THEORY AND FABRICATION OF INTEGRATED CIRCUITS THE AUTHOR'S GOAL IN WRITING THIS TEXT WAS TO PRESENT A CONCISE SURVEY OF THE MOST UP TO DATE TECHNIQUES IN THE FIELD IT IS DEVOTED EXCLUSIVELY TO PROCESSING AND IS HIGHLIGHTED BY CAREFUL EXPLANATIONS CLEAR SIMPLE LANGUAGE AND NUMEROUS FULLY SOLVED EXAMPLE PROBLEMS THIS WORK ASSUMES A MINIMAL KNOWLEDGE OF INTEGRATED CIRCUITS AND OF TERMINAL BEHAVIOR OF ELECTRONIC COMPONENTS SUCH AS RESISTORS DIODES AND MOS AND BIPOLAR TRANSISTORS

THIS TEXT WILL PREPARE THE DESIGNER TO DESIGN SYSTEMS WHICH CAN BE FABRICATED USING THE PRESENTLY AVAILABLE TECHNOLOGY AND TO FOLLOW THE TECHNICAL LITERATURE AND THUS KEEP ABREAST OF THE ART AS IT DEVELOPS THE FIRST CHAPTER PLACES IN PERSPECTIVE THE FIELD OF MICROELECTRONICS AND PRESENTS A HIGHLY SIMPLIFIED PICTURE OF THE MICROELECTRONICS FABRICATION PROCESSES THIS BRIEF DESCRIPTION WILL ESTABLISH A FRAMEWORK FOR UNDERSTANDING THE DETAILED MATERIAL TO BE PRESENTED THE REST OF THE MATERIAL IS DIVIDED INTO A SERIES OF CHAPTERS ON 1 SOLID STATE THEORY DESIGNED TO PROVIDE AN ADEQUATE UNDERSTANDING OF THE BEHAVIOUR OF THE DEVICES USED 2 FABRICATION TECHNOLOGY OF BOTH THE THIN FILM AND SEMICONDUCTOR MICROELECTRONIC CIRCUITS

IN TWO EDITIONS SPANNING MORE THAN A DECADE THE ELECTRICAL ENGINEERING HANDBOOK STANDS AS THE DEFINITIVE REFERENCE TO THE MULTIDISCIPLINARY FIELD OF ELECTRICAL ENGINEERING OUR KNOWLEDGE CONTINUES TO GROW AND SO DOES THE HANDBOOK FOR THE THIRD EDITION IT HAS GROWN INTO A SET OF SIX BOOKS CAREFULLY FOCUSED ON SPECIALIZED AREAS OR FIELDS OF STUDY EACH ONE REPRESENTS A CONCISE YET DEFINITIVE COLLECTION OF KEY CONCEPTS MODELS AND EQUATIONS IN ITS RESPECTIVE DOMAIN THOUGHTFULLY GATHERED FOR CONVENIENT ACCESS COMBINED THEY CONSTITUTE THE MOST COMPREHENSIVE AUTHORITATIVE RESOURCE AVAILABLE CIRCUITS SIGNALS AND SPEECH AND IMAGE PROCESSING PRESENTS ALL OF THE BASIC INFORMATION RELATED TO ELECTRIC CIRCUITS AND COMPONENTS ANALYSIS OF CIRCUITS THE USE OF THE LAPLACE TRANSFORM AS WELL AS SIGNAL SPEECH AND IMAGE PROCESSING USING FILTERS AND ALGORITHMS IT ALSO EXAMINES EMERGING AREAS SUCH AS TEXT TO SPEECH SYNTHESIS REAL TIME PROCESSING AND EMBEDDED SIGNAL PROCESSING ELECTRONICS POWER ELECTRONICS OPTOELECTRONICS MICROWAVES ELECTROMAGNETICS AND RADAR DELVES INTO THE FIELDS OF ELECTRONICS INTEGRATED CIRCUITS POWER ELECTRONICS OPTOELECTRONICS ELECTROMAGNETICS LIGHT WAVES AND RADAR SUPPLYING ALL OF THE BASIC INFORMATION REQUIRED FOR A DEEP UNDERSTANDING OF EACH AREA IT ALSO DEVOTES A SECTION TO ELECTRICAL EFFECTS AND DEVICES AND EXPLORES THE EMERGING FIELDS OF MICROLITHOGRAPHY AND POWER ELECTRONICS SENSORS NANOSCIENCE BIOMEDICAL ENGINEERING AND INSTRUMENTS PROVIDES THOROUGH COVERAGE OF SENSORS MATERIALS AND NANOSCIENCE INSTRUMENTS AND MEASUREMENTS AND BIOMEDICAL SYSTEMS AND DEVICES INCLUDING ALL OF THE BASIC INFORMATION REQUIRED TO THOROUGHLY UNDERSTAND EACH AREA IT EXPLORES THE EMERGING FIELDS OF SENSORS NANOTECHNOLOGIES AND BIOLOGICAL EFFECTS BROADCASTING AND OPTICAL COMMUNICATION TECHNOLOGY EXPLORES COMMUNICATIONS INFORMATION THEORY AND DEVICES COVERING ALL OF THE BASIC INFORMATION NEEDED FOR A THOROUGH UNDERSTANDING OF THESE AREAS IT ALSO EXAMINES THE EMERGING AREAS OF ADAPTIVE ESTIMATION AND OPTICAL COMMUNICATION COMPUTERS SOFTWARE ENGINEERING AND DIGITAL DEVICES EXAMINES DIGITAL AND LOGICAL DEVICES DISPLAYS TESTING SOFTWARE AND COMPUTERS PRESENTING THE FUNDAMENTAL CONCEPTS NEEDED TO ENSURE A THOROUGH UNDERSTANDING OF EACH FIELD IT TREATS THE EMERGING FIELDS OF PROGRAMMABLE LOGIC HARDWARE DESCRIPTION LANGUAGES AND PARALLEL COMPUTING IN DETAIL SYSTEMS CONTROLS EMBEDDED SYSTEMS ENERGY AND MACHINES EXPLORES IN DETAIL THE FIELDS OF ENERGY DEVICES MACHINES AND SYSTEMS AS WELL AS CONTROL SYSTEMS IT PROVIDES ALL OF THE FUNDAMENTAL CONCEPTS NEEDED FOR THOROUGH IN DEPTH UNDERSTANDING OF EACH AREA AND DEVOTES SPECIAL ATTENTION TO THE EMERGING AREA OF EMBEDDED SYSTEMS ENCOMPASSING THE WORK OF THE WORLD S FOREMOST EXPERTS IN THEIR RESPECTIVE SPECIALTIES THE ELECTRICAL ENGINEERING HANDBOOK THIRD EDITION REMAINS THE MOST CONVENIENT RELIABLE SOURCE OF INFORMATION AVAILABLE THIS EDITION FEATURES THE LATEST DEVELOPMENTS THE BROADEST SCOPE OF COVERAGE AND NEW MATERIAL ON NANOTECHNOLOGIES FUEL CELLS EMBEDDED SYSTEMS AND BIOMETRICS THE ENGINEERING COMMUNITY HAS RELIED ON THE HANDBOOK FOR MORE THAN TWELVE YEARS AND IT WILL CONTINUE TO BE A PLATFORM TO LAUNCH THE NEXT WAVE OF ADVANCEMENTS THE HANDBOOK S LATEST INCARNATION FEATURES A PROTECTIVE SLIPCASE WHICH HELPS YOU STAY ORGANIZED WITHOUT OVERWHELMING YOUR BOOKSHELF IT IS AN ATTRACTIVE ADDITION TO ANY COLLECTION AND WILL HELP KEEP EACH VOLUME OF THE HANDBOOK AS FRESH AS YOUR LATEST RESEARCH

THE 31 PAPERS ABOUT HALF OF THE SYMPOSIUM S PRESENTATIONS WERE SELECTED TO PROVIDE A REPRESENTATIVE SAMPLING OF THE PRESENT STATUS OF MATERIALS USED IN VACUUM MICROELECTRONICS THEY RANGE ACROSS ALL ASPECTS OF ELECTRON FIELD EMISSION FROM THEORY AND PHYSICAL MECHANISMS TO DEVICE STRUCTURE BUT MANY FOCUS ON THE FABRICATION CHARACTERIZATION AND MODELING OF ELECTRON EMISSIVE MATERIALS THE SECTIONS COVER FIELD EMITTER ARRAYS AND APPLICATIONS CARBON AND WIDE BANDGAP CATHODES AND OTHER CATHODE MATERIALS REPRODUCED FROM TYPESCRIPTS ANNOTATION COPYRIGHTED BY BOOK NEWS INC PORTLAND OR

SUPPLYING NEARLY 350 EXPERTLY WRITTEN ARTICLES ON TECHNOLOGIES THAT CAN MAXIMIZE AND ENHANCE THE RESEARCH AND PRODUCTION PHASES OF CURRENT AND EMERGING CHEMICAL MANUFACTURING PRACTICES AND TECHNIQUES THIS SECOND EDITION PROVIDES GOLD STANDARD ARTICLES ON THE METHODS PRACTICES PRODUCTS AND STANDARDS RECENTLY INFLUENCING THE CHEMICAL INDUSTRIES NEW MATERIAL INCLUDES DESIGN OF KEY UNIT OPERATIONS INVOLVED WITH CHEMICAL PROCESSES DESIGN UNIT OPERATION AND INTEGRATION OF REACTORS AND SEPARATION SYSTEMS PROCESS SYSTEM PERIPHERALS SUCH AS PUMPS VALVES AND CONTROLLERS ANALYTICAL TECHNIQUES AND EQUIPMENT CURRENT INDUSTRY PRACTICES AND PILOT PLANT DESIGN AND SCALE UP CRITERIA

THIS SECOND EDITION ENCYCLOPEDIA SUPPLIES NEARLY 350 GOLD STANDARD ARTICLES ON THE METHODS PRACTICES PRODUCTS AND STANDARDS INFLUENCING THE CHEMICAL INDUSTRIES IT OFFERS EXPERTLY WRITTEN ARTICLES ON TECHNOLOGIES AT THE FOREFRONT OF THE FIELD TO MAXIMIZE AND ENHANCE THE RESEARCH AND PRODUCTION PHASES OF CURRENT AND EMERGING CHEMICAL MANUFACTURING PRACTICES AND TECHNIQUES THIS COLLECTING OF INFORMATION IS OF VITAL INTEREST TO CHEMICAL POLYMER ELECTRICAL MECHANICAL AND CIVIL ENGINEERS AS WELL AS CHEMISTS AND CHEMICAL RESEARCHERS A COMPLETE RECONCEPTUALIZATION OF THE CLASSIC REFERENCE SERIES THE ENCYCLOPEDIA OF CHEMICAL PROCESSING AND DESIGN WHOSE FIRST VOLUME PUBLISHED IN 1976 THIS RESOURCE OFFERS EXTENSIVE A Z TREATMENT OF THE SUBJECT IN FIVE SIMULTANEOUSLY PUBLISHED VOLUMES WITH COMPREHENSIVE INDEXING OF ALL FIVE VOLUMES IN THE BACK MATTER OF EACH TOME IT INCLUDES MATERIAL ON THE DESIGN OF KEY UNIT OPERATIONS INVOLVED WITH CHEMICAL PROCESSES THE DESIGN UNIT OPERATION AND INTEGRATION OF REACTORS AND SEPARATION SYSTEMS PROCESS SYSTEM PERIPHERALS SUCH AS PUMPS VALVES AND CONTROLLERS ANALYTICAL TECHNIQUES AND EQUIPMENT AND PILOT PLANT DESIGN AND SCALE UP CRITERIA THIS REFERENCE CONTAINS WELL RESEARCHED SECTIONS ON AUTOMATION EQUIPMENT DESIGN AND SIMULATION RELIABILITY AND MAINTENANCE SEPARATIONS TECHNOLOGIES AND ENERGY AND ENVIRONMENTAL ISSUES AUTHORITATIVE CONTRIBUTIONS COVER CHEMICAL PROCESSING EQUIPMENT ENGINEERED SYSTEMS AND LABORATORY APPARATUS CURRENTLY UTILIZED IN THE FIELD IT ALSO PRESENTS EXPERT OVERVIEWS ON KEY ENGINEERING SCIENCE TOPICS IN PROPERTY PREDICTIONS MEASUREMENTS AND ANALYSIS NOVEL MATERIALS AND DEVICES AND EMERGING CHEMICAL FIELDS ALSO AVAILABLE ONLINE THIS TAYLOR FRANCIS ENCYCLOPEDIA IS ALSO AVAILABLE THROUGH ONLINE SUBSCRIPTION OFFERING A VARIETY OF EXTRA BENEFITS FOR BOTH RESEARCHERS STUDENTS AND LIBRARIANS INCLUDING CITATION TRACKING AND ALERTS ACTIVE REFERENCE LINKING SAVED SEARCHES AND MARKED LISTS HTML AND PDF FORMAT OPTIONS CONTACT TAYLOR AND FRANCIS FOR MORE INFORMATION OR TO INQUIRE A

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