

FROM MEMS TO BIO-MEMS AND BIO-NEMS 2011-06-13

FROM MEMS TO BIO MEMS AND BIO NEMS MANUFACTURING TECHNIQUES AND APPLICATIONS DETAILS MANUFACTURING TECHNIQUES APPLICABLE TO BIONANOTECHNOLOGY AFTER REVIEWING MEMS TECHNIQUES MATERIALS AND MODELING THE AUTHOR COVERS NANOFABRICATION GENETICALLY ENGINEERED PROTEINS ARTIFICIAL CELLS NANO CHEMISTRY AND SELF ASSEMBLY HE ALSO DISCUSSES SCALING LA

MODERN MANUFACTURING PROCESSES 2019-08-14

PROVIDES AN IN DEPTH UNDERSTANDING OF THE FUNDAMENTALS OF A WIDE RANGE OF STATE OF THE ART MATERIALS MANUFACTURING PROCESSES MODERN MANUFACTURING IS AT THE CORE OF INDUSTRIAL PRODUCTION FROM BASE MATERIALS TO SEMI FINISHED GOODS AND FINAL PRODUCTS OVER THE LAST DECADE A VARIETY OF INNOVATIVE METHODS HAVE BEEN DEVELOPED THAT ALLOW FOR MANUFACTURING PROCESSES THAT ARE MORE VERSATILE LESS ENERGY CONSUMING AND MORE ENVIRONMENTALLY FRIENDLY THIS BOOK PROVIDES READERS WITH EVERYTHING THEY NEED TO KNOW ABOUT THE MANY MANUFACTURING PROCESSES OF TODAY PRESENTED IN THREE PARTS MODERN MANUFACTURING PROCESSES STARTS BY COVERING ADVANCED MANUFACTURING FORMING PROCESSES SUCH AS SHEET FORMING POWDER FORMING AND INJECTION MOLDING THE SECOND PART DEALS WITH THERMAL AND ENERGY ASSISTED MANUFACTURING PROCESSES INCLUDING WARM AND HOT HYDROSTAMPING IT ALSO COVERS HIGH SPEED FORMING ELECTROMAGNETIC ELECTROHYDRAULIC AND EXPLOSIVE FORMING THE THIRD PART REVIEWS ADVANCED MATERIAL REMOVAL PROCESS LIKE ADVANCED GRINDING ELECTRO DISCHARGE MACHINING MICRO MILLING AND LASER MACHINING IT ALSO LOOKS AT HIGH SPEED AND HARD MACHINING AND EXAMINES ADVANCES IN MATERIAL MODELING FOR MANUFACTURING ANALYSIS AND SIMULATION OFFERS A COMPREHENSIVE OVERVIEW OF ADVANCED MATERIALS MANUFACTURING PROCESSES PROVIDES PRACTICE ORIENTED INFORMATION TO HELP READERS FIND THE RIGHT MANUFACTURING METHODS FOR THE INTENDED APPLICATIONS HIGHLY RELEVANT FOR MATERIAL SCIENTISTS AND ENGINEERS IN INDUSTRY MODERN MANUFACTURING PROCESSES IS AN IDEAL BOOK FOR PRACTITIONERS AND RESEARCHERS IN MATERIALS AND MECHANICAL ENGINEERING

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