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***Engineering
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*Building Materials and
Construction covers the*

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*detailed discussion on
materials required for building
construction along with
construction methodology and
will be useful for students and
teachers as well as for
architects and practicing civil*

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engineers. The book will cater to their needs at every stage, i.e., from initial planning to selection of construction materials, construction practices, and even the post-construction stage. Apart from

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covering the traditional materials and construction details, the book also contains many latest and contemporary topics including newer and advanced materials such as composites, geosynthetics,

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recycled aggregate, paper as building material, bacterial concrete, nano concrete, geopolymer concrete and more. Salient Features : - Covers both building materials and construction practices in

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one volume. - Extensive coverage of traditional and modern building materials and construction practices. - Excellent pedagogy: • Figures: 227 • Tables: 117 • Review Questions: 449 • Multiple-

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*Choice Questions: 250.
Encyclopedia of Renewable
and Sustainable Materials
provides a comprehensive
overview, covering research
and development on all
aspects of renewable,*

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recyclable and sustainable materials. The use of renewable and sustainable materials in building construction, the automotive sector, energy, textiles and others can create markets for

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agricultural products and additional revenue streams for farmers, as well as significantly reduce carbon dioxide (CO₂) emissions, manufacturing energy requirements, manufacturing

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costs and waste. This book provides researchers, students and professionals in materials science and engineering with tactics and information as they face increasingly complex challenges around the

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*development, selection and
use of construction and
manufacturing materials.
Covers a broad range of topics
not available elsewhere in one
resource Arranged
thematically for ease of*

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navigation Discusses key features on processing, use, application and the environmental benefits of renewable and sustainable materials Contains a special focus on sustainability that will

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lead to the reduction of carbon emissions and enhance protection of the natural environment with regard to sustainable materials
For the Engineering Students of Degree, Diploma and AMIE

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*Classes : in MKS Units
Comprehensive Dissertation
Index
Engineering Materials
Handbook of Biomedical
Engineering
Micro and Nano Machining of*

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Engineering Materials

This book contains 18 papers from the Next Generation Biomaterials and Surface Properties of Biomaterials symposia held during the 2010 Materials Science and Technology (MS&T'10) meeting, October 17-21, 2010, Houston, Texas. Topics include:

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Biocompatible Coatings; Drug Delivery and Anti-Microbial Coatings; Ceramic and Metallic Biomaterials; Biomaterials for Tissue Engineering; and Surface Modification.

The impact of the technology of Computer-Aided Design and Manufacturing in automobile

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engineering, marine engineering and aerospace engineering has been tremendous. Using computers in manufacturing is receiving particular prominence as industries seek to improve product quality, increase productivity and to reduce inventory costs. Therefore, the emphasis has

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been attributed to the subject of CAD and its integration with CAM. Designed as a textbook for the undergraduate students of mechanical engineering, production engineering and industrial engineering, it provides a description of both the hardware and software of CAD/CAM systems. The Coverage

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Includes Principles of interactive computer graphics Wireframe, surface and solid modelling Finite element modelling and analysis NC part programming and computer-aided part programming Machine vision systems Robot technology and automated guided vehicles Flexible

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manufacturing systems Computer
integrated manufacturing Artificial
intelligence and expert systems
Communication systems in
manufacturing PEDAGOGICAL
FEATURES CNC program
examples and APT program examples
Review questions at the end of

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every chapter A comprehensive
Glossary A Question Bank at the
end of the chapters

Biomaterials Science: Processing,
Properties, and Applications

Indian Books in Print

Building Materials and Construction

The sciences and engineering. B

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Strength of Materials

This book covers all aspects of the different classes of nanomaterials – from synthesis to application. It investigates in detail the use and feasibility of developing nanocomposites with these

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nanomaterials as reinforcements. The book encompasses synthesis and properties of cellulose nanofibers, bacterial nanocellulose, carbon nanotubes / nanofibers, graphene, nanodiamonds, nanoclays,

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inorganic nanomaterials and their nanocomposites for high-end applications such as electronic devices, energy storage, structural and packaging. The book also provides insight into various modification techniques for

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improving the functionality of nanomaterials apart from their compatibility with the base matrix. This book covers the recent developments in the production of micro and nano size products, which cater to the needs of the

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industry. The processes to produce the miniature sized products with unique characteristics are addressed. Moreover, their application in areas such as micro-engines, micro-heat exchangers, micro-pumps, micro-channels,

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printing heads and medical implants are also highlighted. The book presents such microsystem-based products as important contributors to a sustainable economy. The recent research in this book focuses on the

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development of new micro and nano manufacturing platforms while integrating the different technologies to manufacture the micro and nano components in a high throughput and cost effective manner. The chapters contain

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original theoretical and applied research in the areas of micro- and nano-manufacturing that are related to process innovation, accuracy, and precision, throughput enhancement, material utilization, compact

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equipment development, environmental and life-cycle analysis, and predictive modeling of manufacturing processes with feature sizes less than one hundred micrometers.

Whitaker's Cumulative Book List

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Scientific and Technical Books and
Serials in Print

(for the Architecture and Civil
Engineering Students Preparing
for Degree, Diploma and Other
Competitive Examinations)

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Innovation in Materials Science
and Engineering

In today's modernized world, new research and empirical findings are being conducted and found within various professional industries. The field of engineering is no different.

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Industrial and material engineering is continually advancing, making it challenging for practitioners to keep pace with the most recent trends and methods. Engineering professionals need a handbook that provides up-to-date research

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on the newest methodologies in this imperative industry. The Handbook of Research on Developments and Trends in Industrial and Materials Engineering is a collection of innovative research on the theoretical and practical aspects

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of integrated systems within engineering. This book provides a forum for professionals to understand the advancing methods of engineering. While highlighting topics including operations management, decision analysis, and

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communication technology, this book is ideally designed for researchers, managers, engineers, industrialists, manufacturers, academicians, policymakers, scientists, and students seeking current research on recent findings and

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**modern approaches within
industrial and materials
engineering.**

**This book presents the select
proceedings of the second
International Conference on
Recent Advances in Mechanical
Engineering (RAME 2020). The**

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**topics covered include
aerodynamics and fluid
mechanics, automation,
automotive engineering,
composites, ceramics and
polymers processing,
computational mechanics, failure
and fracture mechanics, friction,**

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**tribology and surface
engineering, heating and
ventilation, air conditioning
system, industrial engineering, IC
engines, turbomachinery and
alternative fuels, machinability
and formability of materials,
mechanisms and machines,**

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metrology and computer-aided inspection, micro- and nano-mechanics, modelling, simulation and optimization, product design and development, rapid manufacturing technologies and prototyping, solid mechanics and structural mechanics,

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thermodynamics and heat transfer, traditional and non-traditional machining processes, vibration and acoustics. The book also discusses various energy-efficient renewable and non-renewable resources and technologies, strategies and

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technologies for sustainable development and energy & environmental interaction. The book is a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields.

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**An Introduction
British Books in Print
International Books in Print
New Indian Homes
Bulletin of the Institution of
Engineers (India).**

This book on Management Accounting
has been written to serve as a useful

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text for undergraduate courses in commerce and management— B.Com. (Hons.), B.Com., B.B.A., B.B.S., B.B.M., B.B.E.—offered by Indian Universities and Institutes. Besides, the students pursuing M.Com., M.B.A., M.I.B., C.A., C.M.A. and C.S. will also find the book equally beneficial for

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their course curriculum. SALIENT FEATURES • Written in a simple, lucid and easy to comprehend style, to facilitate learning even for the first time readers. • Topics have been presented and organised systematically. • Concepts are supported with numerous graphs,

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tables and diagrams, wherever required. • Incorporates more than 260 solved examples/illustrations/questions from previous examination papers of various universities and professional institutes. • Considerable number of objective type, multiple choice

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questions (MCQs), and theoretical and practical questions have been provided in each chapter for the students to learn and practice. The book has already found place in the recommended list of the UGC curriculum under its Choice Based Credit System.

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Handbook of Biomedical Engineering covers the most important used systems and materials in biomedical engineering. This book is organized into six parts: Biomedical Instrumentation and Devices, Medical Imaging, Computers in Medicine, Biomaterials and Biomechanics,

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Clinical Engineering, and Engineering in Physiological Systems Analysis. These parts encompassing 27 chapters cover the basic principles, design data and criteria, and applications and their medical and/or biological relationships. Part I deals with the principles, mode of operation,

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and uses of various biomedical instruments and devices, including transducers, electrocardiograph, implantable electrical devices, biotelemetry, patient monitoring systems, hearing aids, and implantable insulin delivery systems. Parts II and III describe the basic

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principle of medical imaging devices and the application of computers in medicine, particularly in the fields of data management, critical care, clinical laboratory, radiology, artificial intelligence, and research. Part IV focuses on the application of biomaterials and biomechanics in

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orthopedic and accident investigation, while Part V considers the major functions of clinical engineering. Part VI provides the principles and application of mathematical models in physiological systems analysis. This book is valuable as a general reference for courses in a biomedical

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engineering curriculum.

Index of Patents Issued from the
United States Patent and Trademark
Office

Masters Abstracts International
Handbook of Research on
Developments and Trends in Industrial
and Materials Engineering

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Recent Advances in Mechanical
Engineering
Directions

The book features the scientific work
on materials science presented at the
International Conference on Energy,
Materials and Information Technology,
2017 at Amity University Jharkhand,

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India. It highlights all aspects of materials, from synthesis to innovative applications, and from physical characterizations to cost-effectiveness. It also covers essential and state-of-the-art research work on various engineering materials with important physical characteristics. This

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multidisciplinary book is aimed at scientists, academics, research scholars and students from all areas who are interested in understanding the current research in the field of materials science.

A bulky document on cement science and manufacturing technology is

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difficult for a college junior to easily understand. Thus, it is better to write a short and precise book that contains only the necessary basic content. This introductory book is designed as a short and concise resource for undergraduate university students studying chemical science (chemistry

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and chemical engineering), material science, geology, and construction technology. It emphasizes different types of cement, admixtures, and how to analyze the chemical compositions of cement in the laboratory. Technical procedures of cement analysis are very important for determining and

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comparing chemical compositions.
This book describes the detailed
procedures for different test
parameters.

Sales Tax Cases

Publishers' Trade List Annual

Select Proceedings of RAME 2020

Pakistan Journal of Agricultural

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Sciences

ASEE Directory of Engineering
Education Leaders

*Contemporary Indian Houses
discusses fifty-one architect-
designed built-up houses selected
from different parts of India. They*

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display the diversity of needs, tastes and building materials in the context of different weather conditions and social trends.

Different architectural appearances or external expressions have determined the classification

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of the houses into five sections. This grouping keeps the reader's growing interest in the external aspect of a residential structure. The emphasis is on the built-form rather than on the interior and its decor. Each house is accompanied by an

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*explanatory text and supplemented
by appropriate drawings and
photographs to present a
comprehensive picture of India's
many-splendoured domestic
architecture. Contemporary Indian
Houses is a well illustrated*

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document of changing trends in architectural tune. It is not only a reflection of contemporary Indian architecture but also source of reference material for architecture historians. Moreover, it fulfills the needs of architects and other

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professionals engaged in house construction activity along with those general readers who wish to keep themselves informed of what is happening in the field of creative design.

Encyclopedia of Renewable and

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Sustainable Materials

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A Classified List of

Publications...together with an

Index to Authors and Titles

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