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publisher description

this text treats the important properties of the three primary types of materials metals ceramics and polymers as well as composites and the relationships that exist between the structural elements of these materials and their properties emphasis is placed on mechanical behavior and failure including techniques that are employed to improve the mechanical and failure characteristics in terms of alteration of structural elements furthermore individual chapters discuss each of corrosion electrical thermal magnetic and optical properties new and cutting edge materials are also discussed even if an instructor does not have a strong materials background i e is from mechanical civil chemical or electrical engineering or chemistry departments he or she can easily teach from this text the material is not at a level beyond which the students can comprehend an instructor would not have to supplement in order to bring the students up to the level of the text also the author has attempted to write in a concise clear and organized manner using terminology that is familiar to the students extensive student and instructor resource supplements are also provided publisher s description

this book is a step in the direction of giving an indian perspective for understanding the world of fabrics organised in seven parts the book adopts a systematic approach in defining and exploring the concepts of fabric science part i fundamentals discusses the history composition classification and properties of textile fibres part ii fibres focuses on the typical traits of the fibre family part iii yarns deals with yarn production and properties part iv fabrics covers weaving knitting and other methods of fabric construction part v finishing highlights the colouration and functional finishes of any fabric part vi consumer concerns is aimed at enhancing consumer satisfaction by generating awareness among consumers regarding selection care and maintenance and vital topics like blending and defects part vii miscellaneous concepts guides students on career opportunities related to this course key features relevant illustrations and images to help in grasping the steps of fabric construction chapter end exercises aimed at testing the factual knowledge understanding and application of the concepts simple examples from day to day life to instil a sense of curiosity in the reader s mind to know more about the intriguing world of textiles new to the fourth edition while maintaining organization of the book and its hallmark features simple no frills writing style and engaging pedagogy the fourth edition introduces two new chapters on blending and defects in part vi both areas are of concern for consumers a new chapter on sustainability in part vii on demand of civil service aspirants and today s eco conscious times target audience m sc fabric and apparel science b a b sc home science m sc home science civil services aspirants contents preface preface to the first edition acknowledgements part i fundamentals 1 introduction 2 classification of textile fibres 3 textile fibre composition 4 fibre properties part ii fibres 5 natural protein fibres 6 natural cellulose 7 regenerated fibres 8 synthetic and inorganic fibres part iii yarns 9 yarn production 10 yarn properties part iv fabrics 11 weaving 12 knitting 13 non wovens and other methods of fabric construction part v finishing 14 basic and special finishing 15 finishing with colour dyeing and printing part vi consumer concerns 16 choosing an appropriate fabric guidelines for consumers 17 care and maintenance of fabrics 18 blending 19 fabric defects part vii miscellaneous 20 career opportunities 21 towards sustainability ten university test papers index

the seventh edition of this frequently adopted textbook features new or expanded sections on social justice research data analysis

software scholarly identity research social networking data science and data visualization among other topics it continues to include discipline experts voices the revised seventh edition of this popular text provides instruction and guidance for professionals and students in library and information science who want to conduct research and publish findings as well as for practicing professionals who want a broad overview of the current literature providing a broad introduction to research design the authors include principles data collection techniques and analyses of quantitative and qualitative methods as well as advantages and limitations of each method and updated bibliographies chapters cover the scientific method sampling validity reliability and ethical concerns along with quantitative and qualitative methods lis students and professionals will consult this text not only for instruction on conducting research but also for guidance in critically reading and evaluating research publications proposals and reports as in the previous edition discipline experts provide advice tips and strategies for completing research projects dissertations and theses writing grants overcoming writer s block collaborating with colleagues and working with outside consultants journal and book editors discuss how to publish and identify best practices and understudied topics as well as what they look for in submissions

this book introduces students to the history and philosophy of the natural sciences the book examines major topics in the history and philosophy of science including among others the meaning nature goal and method of science the meaning nature and goal of philosophy of science the problems of induction and causation and the inductive reasoning as the primary logic of science the book also examines positivism logical positivism and the analytic philosophical tradition falsificationism of karl popper within the context of his grand philosophy of critical rationalism methodology of scientific research programme of imre lakatos scientific revolution of thomas kuhn methodological anarchism of paul feyerabend the history of the western sciences and the philosophical issues associated with them the origin theories of the universe and by implication of man are also analysed here in perspective issues on the environment its sustainability and renewability are sufficiently adumbrated in this book

advances in food science technology and engineering are occurring at such a rapid rate that obtaining current detailed information is challenging at best while almost everyone engaged in these disciplines has accumulated a vast variety of data over time an organized comprehensive resource containing this data would be invaluable to have the

consumer markets for foods and beverages in developed countries are well supplied and highly fragmented yet the question being asked is how close retailers actually come to fulfilling their customers requirements the concept of consumer value is one of the main pillars underpinning the theory of market differentiation this book takes an interdisciplinary approach to the analysis of satisfaction in relation to the consumption of food with both food science and consumer science playing central parts it approaches food quality from both the technical and the consumer satisfaction perspectives and assesses the roles of management and regulatory tools in delivering food quality for all each area is discussed in detail using the appropriate technical terminology but keeping the text accessible to readers from

both academic traditions as well as to non specialist readers

forensic investigation of clandestine laboratories second edition is fully updated to address all aspects of the forensic investigation of clandestine laboratories while the first edition focused on the domestic clandestine manufacture of contraband substances this edition expands the scope to more fully address the clandestine manufacture of explosives that have become a threat that is global in nature in clandestine laboratory operations equipment is often simple household chemical products are utilized and the education of the operators basic in fact most of the time these elements individually are perfectly legal to sell and possess however the combination of all these elements is what becomes the scene of illicit activity and a criminal operation in response to the increase in use of homemade explosive mixtures by terrorists both domestically and internationally the section clandestine manufacture of explosives is greatly enhanced topics are presented in a manner which while detailed will not compromise the tactics techniques or procedures utilized by law enforcement and military personnel in their ability to combat the clandestine manufacture of contraband substances and the battle against domestic and international terrorism key features examines tell tale signs to look for in recognizing a clandestine lab outlines how to safely process the site of a clandestine lab details how to analyze collected evidence in the examination laboratory provides guidelines as to what to derive from the physical evidence offers specific tactics to effectively present the opinions associated with evidence that has been collected during the investigation in a written report military style briefing or to a jury in a legal proceeding forensic investigation of clandestine laboratories second edition guides the reader through the process of recognizing these illegal manufacturing operations then it examines the methods as to how to compile the volume of associated evidence into a package that can be presented in a court of law or to military commanders for decisive action it is an invaluable resource that will prove useful to chemistry lab technicians forensic investigators fire and first responder professionals military personnel police investigative agencies and narcotics units and lawyer trying cases involving clandestine labs

first published in 1998 the textbook provides a thorough grounding in the science of food preparation for btec national hnc d and gnvq hospitality and catering it will also be useful for courses in home economics food science food technology dietetics and nutrition topics are introduced through clear concise explanations supported by up to date data

with chapter sequencing following the new curriculum this book supports trainee primary school teachers to make use of the opportunities presented in the new national curriculum for effective and engaging science teaching covering all of the areas of the new national curriculum for primary science and offering insight into effective teaching it helps you connect what you need to teach to how it can be taught this comprehensive guide to teaching primary science will help you secure your subject knowledge understand how children learn about science and know how to plan and teach effective and inspiring science lessons exploring opportunities in the new curriculum for creative and imaginative teaching it shows you how to capitalize on opportunities to teach science in a way that sparks children s interest

includes the full national curriculum programme of study for science key stages 1 and 2 as a useful reference for trainee teachers other books in this series include primary mathematics for trainee teachers and primary english for trainee teachers

with breadth and depth of coverage the encyclopedia of computer science and technology second edition has a multi disciplinary scope drawing together comprehensive coverage of the inter related aspects of computer science and technology the topics covered in this encyclopedia include general and reference hardware computer systems organization networks software and its engineering theory of computation mathematics of computing information systems security and privacy human centered computing computing methodologies applied computing professional issues leading figures in the history of computer science the encyclopedia is structured according to the acm computing classification system ccs first published in 1988 but subsequently revised in 2012 this classification system is the most comprehensive and is considered the de facto ontological framework for the computing field the encyclopedia brings together the information and historical context that students practicing professionals researchers and academicians need to have a strong and solid foundation in all aspects of computer science and technology

a practical introduction to the engineering science and mathematics required for engineering study and practice science and mathematics for engineering is an introductory textbook that assumes no prior background in engineering this new edition covers the fundamental scientific knowledge that all trainee engineers must acquire in order to pass their examinations and has been brought fully in line with the compulsory science and mathematics units in the new engineering course specifications a new chapter covers present and future ways of generating electricity an important topic john bird focuses upon engineering examples enabling students to develop a sound understanding of engineering systems in terms of the basic laws and principles this book includes over 580 worked examples 1300 further problems 425 multiple choice questions with answers and contains sections covering the mathematics that students will require within their engineering studies mechanical applications electrical applications and engineering systems this book is supported by a companion website of materials that can be found at routledge.com/bird this resource includes fully worked solutions of all the further problems for students to access and the full solutions and marking schemes for the revision tests found within the book for instructor use in addition all 447 illustrations will be available for downloading by lecturers

forensic science forensic science current issues future directions presents a comprehensive international discussion of key issues within the forensic sciences written by accomplished and respected specialists in distinct areas of the forensic sciences this volume examines central issues within each discipline provides perspective on current debate and explores current and proposed research initiatives the forensic sciences represent dynamic and evolving fields presenting new challenges to a rapidly expanding cohort of international practitioners this book acquaints readers with the complex issues involved and how they are being addressed the academic treatment by experts in the fields ensures comprehensive and thorough understanding of these issues and paves the way for future research and progress draws on

the knowledge and expertise of the prestigious american academy of forensic sciences written by key experts in the diverse disciplines of forensic science an international approach each chapter carefully integrated throughout with key themes and issues covered in detail includes discussion of future directions of forensic science as a discipline

this new edition of the science of environmental pollution presents common sense approaches and practical examples based on scientific principles models and observations but keeps the text lively and understandable for scientists and non scientists alike it addresses the important questions regarding environmental pollution what is it what is its impact what are the causes and how can we mitigate them but more than this it stimulates new ways to think about the issues and their possible solutions this third edition has been updated throughout and contains new information on endocrine disruptors in drinking water contaminated sediments in surface waters hydraulic fracturing wastewater and more also it will include new case studies examples and study questions environmental issues continue to attract attention at all levels some sources say that pollution is the direct cause of climate change others deny that the possibility even exists this text sorts through the hyperbole providing concepts and guidelines that not only aid in understanding the issues but equip readers with the scientific rationale required to make informed decisions

this handbook is written for undergraduate sport studies and sport and exercise students it introduces students to the basic scientific principles that will underpin their learning and is aimed primarily at those who have little or no background in science craig williams and david james apply key scientific concepts to real situations to better understand the principles at work clearly divided into three sections the text covers the three physical states of gas liquid and solid explanations of forces energy and electricity including pressure torque and joint velocity data analysis ict and report writing important areas for the scientist science for exercise and sport provides the student with all the basic scientific background information they need and demonstrates how the theory can be used to map and monitor the human body in the sport and exercise discipline

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