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The area of food adulteration is one of increasing concern for all those in the food industry. This book compares and evaluates indices currently used to assess food authenticity. With reference to India. A Textbook of workshop Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance. A Textbook of workshop Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance. The global demand for energy is met mainly by fossil fuels. Their excessive and indiscriminate use, coupled with increasing demand for energy, will soon deplete their existing reserves. Therefore, it is extremely important to find alternative, environment-friendly, and ecologically sound sources of energy for meeting the present and future energy requirements. Biogas Technology: Towards Sustainable Development makes an attempt to explore the potential of utilizing biodegradable biomass as fuel and manure. In recent years, there has been a veritable explosion of research and development in consumer-oriented fields that utilize polymeric materials which absorb large amounts of water. These fields encompass the preparation, characterization and commercialization of separation systems, pharmaceutical and personal care products such as infant diapers, feminine products, incontinence products and many other related areas. The polymeric materials utilized in these applications are known as absorbent or superabsorbent materials because of their ability to swell rapidly and to retain large volumes of water, urine and other biological fluids. The aim of this book is to introduce the fundamentals of polymer structure and swelling as related to polymers used for these superabsorbent materials. In the field of absorbence, particular attention is given to crosslinked structures which swell to more than fifty times their initial weight in water or electrolytic solutions. The book also provides descriptions of novel applications of superabsorbent materials as well as a detailed analysis of water transport in crosslinked polymers. Absorbent Polymer Technology should be of interest to chemists, polymer scientists, chemical engineers, and industrial scientists working with swellable polymeric systems in personal care, pharmaceutical, agricultural waste treatment and separation industries. Multi-carrier modulation, in particular orthogonal frequency division multiplexing (OFDM), has been successfully applied to a wide variety of digital communications applications for several years. Although OFDM has been chosen as the physical layer standard for a diversity of important systems, the theory, algorithms, and implementation techniques remain subjects of current interest. This book is intended to be a concise summary of the present state of the art of the theory and practice of OFDM technology. This book offers a unified presentation of OFDM theory and high speed and wireless applications. In particular, ADSL, wireless LAN, and digital broadcasting technologies are explained. It is hoped that this book will prove valuable both to developers of such systems, and to researchers and graduate students involved in analysis of digital communications, and will remain a valuable summary of the technology, providing an understanding of new advances as well as the present core technology. This book, in its Second Edition, provides the basic concepts and applications of discrete mathematics and graph theory. The book is aimed at undergraduate students of computer science and engineering, and information technology. It is also suitable for undergraduate and postgraduate students of computer science, mathematics and computer applications. The book exposes the students to fundamental knowledge in: - Mathematical logic, tautology and normal forms - Elementary set theory, functions and their relations - Algebraic structure, binary operation, group theory and homomorphism - Theory of permutations and combinations, binomial and multinomial theorems - Recurrence relations and methods of solving them - Graph theory, spanning tree, Eulerian and Hamiltonian circuits and isomorphism Key Features Includes a large number of worked-out problems for sound understanding of the concepts. Offers chapter-end exercises to test students' comprehension of theory. Gives a quiz section at the end of each chapter to help students prepare for the competitive examinations. Incorporates short questions asked in universities' examinations. Quality Technology Handbook, Fourth Edition offers a wide discussion on technology and its related subtopics. After giving some information on its background, content, and authors, the book then informs the readers about the quality problem check-list and enumerates the questions one has to ask to ensure that a problem will be solved. This part is followed by a discussion on non-destructive testing (NDT) and the several committees formed for it, among which are the British National Committee and the Harwell NDT Center. The book also includes information on two organizations that are closely related to the topic, the Institute of Quality Assurance (IQA) and The Welding Institute (TWI). A directory of international organizations related to quality assurance and non-destructive testing is provided in the latter part of the text. The book serves as valuable reference to undergraduates or postgraduates of courses that are related to science and technology. "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher. A digital world is rising! Not only the phones are going smart, the homes, cities and even businesses are going smart. It is a momentous time for India to catapult itself in the digital world. At the same time the world is also deglobalizing to protect itself from future COVID-like pandemics. Not-so-coincidentally, a smart world is a deglobalized world. This has created an incredible opportunity for India to become the digital hub driving this mega transformation. For India opportunities are everywhere. Smart homes and smart cities are opening a plethora of career and start up opportunities. Smart global businesses are opening the flood gate of IT opportunities. India simply cannot afford to miss them. With more than 400 million youths below the age of 15, India is truly a sleeping giant. Rise of the Digital World takes readers through an exhilarating journey into the fascinating world of cutting-edge technologies and the opportunities-the smart punch nimble enough to wake up the giant. This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, and case studies related to all the areas of data mining, machine learning, Internet of things (IoT), and information security. This is a basic book for fire officers, security and safety officers and all others concerned with the prevention of fires. It deals with the fundamentals of fire engineering. Precautionary measures, extinction and elimination of risks in industrial establishments have been given special importance. Technology and its power are both old and new—as is the wisdom needed to envision, design, and use it well. In this field guide for Christians studying and working in technology, case studies, historical examples, and personal stories encourage readers to ask harder questions, aspire to more noble purposes, and live a life consistent with their faith as they engage with technology. 5G NR: The Next Generation Wireless Access Technology follows the authors' highly celebrated books on 3G and 4G by providing a new level of insight into 5G NR. After an initial discussion of the background to 5G, including requirements, spectrum aspects and the standardization timeline, all technology features of the first phase of NR are described in detail. Included is a detailed description of the NR physical-layer structure and higher-layer protocols, RF and spectrum aspects and co-existence and interworking with LTE. The book provides a good understanding of NR and the different NR technology components, giving insight into why a certain solution was selected. Content includes: Key radio-related requirements of NR, design principles, technical features Details of basic NR transmission structure, showing where it has been inherited from LTE and where it deviates from it, and the reasons why NR Multi-antenna transmission functionality Detailed description of the signals and functionality of the initial NR access, including signals for synchronization and system information, random access and paging LTE/NR co-existence in the same spectrum, the benefits of their interworking as one system The different aspects of mobility in NR RF requirements for NR will be described both for BS and UE, both for the legacy bands and for the new mm-wave bands Gives a concise and accessible explanation of the underlying technology and standards for 5G NR radio-access technology Provides detailed description of the NR physical-layer structure and higher-layer protocols, RF and spectrum aspects and co-existence and interworking with LTE Gives insight not only into the details of the NR specification but also an understanding of why certain solutions look like they do This book focuses on cutting-edge innovations and core theories, principles, and algorithms applicable to a wide area. Real-life applications, case studies, and examples are included along with emerging trends, design, and optimized solutions pivoting around the needs of Society 5.0. Evolutionary Computation with Intelligent Systems: A Multidisciplinary Approach to Society 5.0 provides a holistic view of evolutionary computation techniques including principles, procedures, and future applications with real-life examples. The book comprehensively explains evolutionary computation, design, principles, development trends, and optimization and describes how it can transform the operating context of the organization. It exemplifies the potential of evolutionary computation for the next generation and the role of cloud computing in shaping Society 5.0. It also provides insight into various platforms, paradigms, techniques, and tools used in diverse fields. This book appeals to a variety of readers such as academicians, researchers, research scholars, and postgraduates. Having now come of age, telemedicine has the potential of having a greater impact on the future of medicine than any other modality. Telemedicine, in the final analysis, brings reality to the vision of an enhanced accessibility of medical care and a global network of healthcare, which was not even imagined two decades ago. Today, the field of telemedicine has expanded rapidly and is likely to assume greater importance in healthcare delivery in the coming times. To address the developing trend of telemedicine applications in both urban and rural areas throughout the world, this book has been designed to discuss different technologies which are being applied in the field of telemedicine and their applications including advances in wireless technologies, the use of fibre optics in telecommunication, availability of broadband Internet, digital imaging technologies and compressed video techniques that have eliminated the problems of telemedicine and also reduced the cost. Starting with the basic hospital based telemedicine system and leading to mHealth, teleHealth and eHealth, the book covers as to how various physiological signals are acquired from the body, processed and used for monitoring the patients anywhere anytime. The book is primarily intended for undergraduate and postgraduate students of Biomedical Engineering, Biomedical Instrumentation, Computer Science and Information Technology and Hospital Management and Nursing. KEY FEATURES • Covers all aspects of telemedicine technology, including medical devices, telecommunications, networking and interfacing techniques • Provides step-by-step coverage on how to set up a telemedicine centre • Includes broad application areas of telemedicine • Covers essentials of telemedicine including mHealth, eHealth and teleHealth • Provides abbreviations/acronyms and glossary of commonly used terms in telemedicine The use of more robust, affordable, and efficient techniques and technologies in the application of medicine is presently a subject of huge interest and demand. Technology and Medical Sciences solidifies knowledge in the fields of technology and medical sciences and to define their key stakeholders. The book is designed for academics in engineering, mathematics, medicine, biomechanics, computation sciences, hardware development and manufacturing, electronics and instrumentation, and materials science. A major challenge faced by managers in the 1990s is to combine the twin objectives of developing employee involvement and motivation at work (in the interests of better quality, high productivity and customer service) and implementing new technology and computer systems. "SCIENCE AND TECHNOLOGY OF 'THE UNDEROLED MELT" This title was chosen as the topical headline of the Advanced Research Workshop (ARW) from March 17 to 22 1985, held at the Castle of Theuern. The usual term "Rapid Solidification" is an overlapping description. Due to the fact that nucleation is so eminently important for the undercooling of a melt and this, in turn, is an important characteristic of rapid solidifi cation, undercooling plays an essential role in "rapid solidification." The undercooled melt has caused an "accelerated evolution" (if not a revolution) in materials science during the last decade. Several rather exciting concepts with interesting potential for novel applications are being pursued presently in various laboratories and companies. They concern not only new processes and ha-ware developments, but also present chal lenging perspectives for ventures, including the founding of new companies; or they promise growth possibilities with established larger and smaller industrial establishments. One of the most comprehensive books in the field, this import from TATA McGraw-Hill rigorously covers the latest developments in medical imaging systems, gamma camera, PET camera, SPECT camera and lithotripsy technology. Written for working engineers, technicians, and graduate students, the book includes of hundreds of images as well as detailed working instructions for the newest and more popular instruments used by biomedical engineers today. The second edition of Wine Science: Principles, Practice, Perception updates the reader with current processes and methods of wine science, including an analysis of the advantages and disadvantages of various new grape cultivar clones, wine yeast strains, and malolactic bacteria. It also addresses current research in wine consumption as related to health. The many added beautiful color photographs, graphs, and charts help to make the sophisticated techniques described easily understandable. This book is an essential part of a any library. Key Features * Univerally appealing to non-technologists and technologists alike * Includes section on Wine and Health which covers the effects of wine consumption on cardiovascular diseases, headaches, and age-related macular degeneration * Covers sophisticated techniques in a clear, easily understood manner * Presents a balance between the objective science of wine chemistry and the subjective study of wine appreciation * Provides updated information involving advantages/disadvantages of various grape cultivar clones, wine yeast strains, and malolactic bacteria * Chapter on recent historical findings regarding the origin of wine and wine making processes

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