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### **CABRERA GRETCHEN**

*Neem: Today and in the New Millennium* S. Chand Publishing

"Provides the latest authoritative research on the developments, technology, and applications of rubbery materials. Presents structures, manufacturing techniques, and processing details for natural and synthetic rubbers, rubber-blends, rubber composites, and thermoplastic elastomers. 80% revised and rewritten material covers major advances since publication of the previous edition."

*Mechanical system design* CRC Press

A moral dilemma gripped Professor Gupta when he was invited by the Bangladeshi government to help restructure their agricultural sector in 1985. He noticed how the marginalized farmers were being paid poorly for their otherwise unmatched knowledge. The gross injustice of this constant imbalance led Professor Gupta to found what would turn into a resounding social and ethical

movement—the Honey Bee Network—bringing together and elevating thousands of grassroots innovators. For over two decades, Professor Gupta has travelled through rural lands unearthing innovations by the ranks—from the famed Mitti Cool refrigerator to the footbridge of Meghalaya. He insists that to fight the largest and most persistent problems of the world we must eschew expensive research labs and instead, look towards ordinary folk. Innovation—that oft-flung around word—is stripped to its core in this book. Poignant and personal, Grassroots Innovation is an important treatise from a social crusader of our time.

*Applications of Computing, Automation and Wireless Systems in Electrical Engineering* Springer  
 The book is meant for for B.E./B.Tech./B.Sc. (Engg.) students of Indian universities. Theoretical portions have been explained in simple language, together with large number of illustrative diagrams. Contains many tutorial problems drawn from various universities. Also included is a special feature test your understanding and know the type of theoretical questions asked in the examinations.

*ELECTRICAL ENGINEERING FUNDAMENTALS.* CRC Press

This book provides a compelling overall update on current status of RNA interference

**Basic Electrical and Electronics Engineering** Springer Nature

This book discusses the role of probiotics and prebiotics in maintaining the health status of a broad range of animal groups used for food production. It also highlights the use of beneficial microorganisms as protective agents in animal derived foods. The book provides essential information on the characterization and definition of probiotics on the basis of recently released guidelines and reflecting the latest trends in bacterial taxonomy. Last but not least, it discusses the concept of “dead” probiotics and their benefits to animal health in detail. The book will benefit all professors, students, researchers and practitioners in academia and industry whose work involves biotechnology, veterinary sciences or food production.

**Research in Intelligent and Computing in Engineering** Royal Society of Chemistry

This book, compiles, presents, and explains the most important meta-heuristic and evolutionary optimization algorithms whose successful performance has been proven in different fields of engineering, and it includes application of these algorithms to important engineering optimization

problems. In addition, this book guides readers to studies that have implemented these algorithms by providing a literature review on developments and applications of each algorithm. This book is intended for students, but can be used by researchers and professionals in the area of engineering optimization.

[Evolutionary Computing and Mobile Sustainable Networks](#) Random House India

This book presents the outcomes of the Intelligent Communication Technologies and Virtual Mobile Networks Conference (ICICV 2019) held in Tirunelveli, India, on February 14–15, 2019. It presents the state of the art in the field, identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing. In light of the tremendous growth ICT, it examines the rapid developments in virtual reality in communication technology and high-quality services in mobile networks, including the integration of virtual mobile computing and communication technologies, which permits new technologies based on the resources and services of computational intelligence, big data analytics, Internet of Things (IoT), 5G technology, automation systems, sensor networks, augmented reality, data mining, and vehicular ad hoc networks with massive cloud-based backend. These services have a significant impact on all areas of daily life, like transportation, e-commerce, health care, secure communication, location detection, smart home, smart city, social networks and many more.

[Recent Trends in Mechanical Engineering](#) CRC Press

This book consists of peer-reviewed proceedings from the International Conference on Innovations in Mechanical Engineering (ICIME 2020). The contents cover latest research in all major areas of mechanical engineering, and are broadly divided into five parts: (i) thermal engineering, (ii) design and optimization, (iii) production and industrial engineering, (iv) materials science and metallurgy, and (v) multidisciplinary topics. Different aspects of designing, modeling, manufacturing, optimizing, and processing are discussed in the context of emerging applications. Given the range of topics covered, this book can be useful for students, researchers as well as professionals.

[Electrical Machines S. Chand Publishing](#)

Plants produce a huge array of natural products (secondary metabolites). These compounds have important ecological functions, providing protection against attack by herbivores and microbes and serving as attractants for pollinators and seed-dispersing agents. They may also contribute to competition and invasiveness by suppressing the growth of neighboring plant species (a phenomenon known as allelopathy). Humans exploit natural products as sources of drugs, flavoring agents, fragrances and for a wide range of other applications. Rapid progress has been made in recent years in understanding natural product synthesis, regulation and function and the evolution of metabolic diversity. It is timely to bring this information together with contemporary advances in chemistry, plant biology, ecology, agronomy and human health to provide a comprehensive guide to plant-derived natural products. Plant-derived natural products: synthesis, function and application provides an informative and accessible overview of the different facets of the field, ranging from an introduction to the different classes of natural products through developments in natural product chemistry and biology to ecological interactions and the significance of plant-derived natural products for humans. In the final section of the book a series of chapters on new trends covers metabolic engineering, genome-wide approaches, the metabolic consequences of genetic modification, developments in traditional medicines and nutraceuticals, natural products as leads for drug discovery and novel non-food crops.

[Grassroots Innovation Food & Agriculture Org.](#)

This book presents an updated discussion of the chemical composition and biological properties of the main bee products. Specific attention is focused on the beneficial biological activities of bee products in human health. Honey, royal jelly, propolis, bee pollen and bee venom are used as nutriment and in traditional medicine. Their composition is rather variable and depends on the floral source and external factors, such as seasonal, environmental conditions and processing. Bee

products are rich in several essential nutrients and non essential nutrients, as sugars, minerals, proteins, free amino acids, vitamins, enzymes and polyphenols, that seem to be closely related to their biological functions. The effects of these products in nutrition, aging and age-related diseases, cancer, neurodegenerative diseases and pathogen infections are discussed.

[Handbook of Elastomers, Second Edition](#), Springer Nature

This book is a collection of research papers and articles presented at the 3rd International Conference on Communications and Cyber-Physical Engineering (ICCCE 2020), held on 1-2 February 2020 at CMR Engineering College, Hyderabad, Telangana, India. Discussing the latest developments in voice and data communication engineering, cyber-physical systems, network science, communication software, image and multimedia processing research and applications, as well as communication technologies and other related technologies, it includes contributions from both academia and industry. This book is a valuable resource for scientists, research scholars and PG students working to formulate their research ideas and find the future directions in these areas. Further, it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering.

[Advances in Applied Mechanical Engineering](#) Springer

This book gathers selected high-quality research papers from the International Conference on Computational Methods and Data Engineering (ICMDE 2020), held at SRM University, Sonapat, Delhi-NCR, India. Focusing on cutting-edge technologies and the most dynamic areas of computational intelligence and data engineering, the respective contributions address topics including collective intelligence, intelligent transportation systems, fuzzy systems, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, and speech processing.

[Advanced Optimization by Nature-Inspired Algorithms](#) Springer Nature

The book is a compilation of selected papers from 2020 International Conference on Electrical and Electronics Engineering (ICEEE 2020) held in National Power Training Institute HQ (Govt. of India) on February 21 – 22, 2020. The work focuses on the current development in the fields of electrical and electronics engineering like power generation, transmission and distribution, renewable energy sources and technology, power electronics and applications, robotics, artificial intelligence and IoT, control, and automation and instrumentation, electronics devices, circuits and systems, wireless and optical communication, RF and microwaves, VLSI, and signal processing. The book is beneficial for readers from both academia and industry.

[Bee Products - Chemical and Biological Properties](#) Springer Nature

A Txtbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

[ICCCE 2020](#) Springer

The smartphone is often literally right in front of our nose, so you would think we would know what it is. But do we? To find out, 11 anthropologists each spent 16 months living in communities in Africa, Asia, Europe and South America, focusing on the take up of smartphones by older people. Their research reveals that smartphones are technology for everyone, not just for the young. The Global Smartphone presents a series of original perspectives deriving from this global and comparative research project. Smartphones have become as much a place within which we live as a device we use to provide ‘perpetual opportunism’, as they are always with us. The authors show how the smartphone is more than an ‘app device’ and explore differences between what people say about smartphones and how they use them. The smartphone is unprecedented in the degree to which we can transform it. As a result, it quickly assimilates personal values. In order to comprehend it, we must take into consideration a range of national and cultural nuances, such as

visual communication in China and Japan, mobile money in Cameroon and Uganda, and access to health information in Chile and Ireland – all alongside diverse trajectories of ageing in Al Quds, Brazil and Italy. Only then can we know what a smartphone is and understand its consequences for people’s lives around the world.

[Transurethral Resection](#) Cambridge University Press

There are a number of books dealing only with the design of machine elements and not machines, which are systems as a whole. To design a system or a machine, integration of the various principles of engineering such as thermodynamics, hydrodynamics, fluid mechanics, heat transfer and so on is very essential. This book presents the subjects of mechanical system design and automobile system design, which will help students to design a mechanical system as a complete machine. It will be useful for students studying at the undergraduate and post-graduate levels.

[A Textbook of Engineering Physics](#) Springer Nature

Biopolymeric Nanomaterials: Fundamentals and Applications outlines the fundamental design concepts and emerging applications of biopolymeric nanomaterials. The book also provides information on emerging applications of biopolymeric nanomaterials, including in biomedicine, manufacturing and water purification, as well as assessing their physical, chemical and biological properties. This is an important reference source for materials scientists, engineers and biomedical scientists who are seeking to increase their understanding of how polymeric nanomaterials are being used for a range of biomedical and industrial applications. Biopolymeric nanomaterials refer to biocompatible nanomaterials, consisting of biopolymers, such as protein (silk, collagen, gelatin,  $\beta$ -casein, zein, and albumin), protein-mimicked polypeptides and polysaccharides (chitosan, alginate, pullulan, starch, and heparin). Biopolymeric nanomaterials may be used as i) delivery systems for bioactive compounds in food application, (ii) for delivery of therapeutic molecules (drugs and genes), or for (iii) tissue engineering. Provides information on the design concepts and synthesis of biopolymeric nanomaterials in biomedical and industrial applications Highlights the major properties and processing methods for biopolymeric nanomaterials Assesses the major challenges of producing biopolymeric nanomaterials on an industrial scale

[Proceedings of International Conference on Wireless Communication](#) Springer Science & Business Media

Offers key concepts of electrical machines embedded with solved examples, review questions, illustrations and open book questions.

[Progress in Advanced Computing and Intelligent Engineering](#) Springer

The book highlights the biotechnological advancement in the area of food adulterants and outlines the current state of art technologies in the detection of food adulterants using omics and nanobiotechnology. The book provides insights to the most recent innovations, trends, concerns, and challenges in food adulterants. It identifies key research topics and practical applications of modern cutting-edge technologies employed for detection of food adulterants including: expansion of food adulterants market, potential toxicity of food adulterants and the prevention of food adulteration act, cutting-edge technology for food adulterants detection, and biosensing and nanobiosensing based detection of food adulterants. There is need for new resources in omics technologies for the application of new nanobiotechnology. Biotechnological Approaches in Food Adulterants provides an overview of the contributions of food safety and the most up-to-date advances in omics and nanobiotechnology approaches to a diverse audience from postgraduate students to researchers in biochemical engineering, biotechnology, food technologist, environmental technologists, and pharmaceutical professionals.

[Innovations in Electrical and Electronic Engineering](#) CRC Press

This third edition of Basic Electrical Engineering provides a lucid exposition of the principles of electrical engineering. The book provides an exhaustive coverage of topics such as network theory and analysis, magnetic circuits and energy conversion, ac and dc machines, basic analogue instruments, and power systems. The book also gives an introduction to illumination concepts.

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