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### KEY=THROUGH - CAMACHO LACI

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**Engineering Mathematics Through Applications Bloomsbury Publishing** This popular, world-wide selling textbook teaches engineering mathematics in a step-by-step fashion and uniquely through engineering examples and exercises which apply the techniques right from their introduction. This contextual use of mathematics is highly motivating, as with every topic and each new page students see the importance and relevance of mathematics in engineering. The examples are taken from mechanics, aerodynamics, electronics, engineering, fluid dynamics and other areas. While being general and accessible for all students, they also highlight how mathematics works in any individual's engineering discipline. The material is often praised for its careful pace, and the author pauses to ask questions to keep students reflecting. Proof of mathematical results is kept to a minimum. Instead the book develops learning by investigating results, observing patterns, visualizing graphs and answering questions using technology. This textbook is ideal for first year undergraduates and those on pre-degree courses in Engineering (all disciplines) and Science. New to this Edition: - Fully revised and improved on the basis of student feedback - New sections - More examples, more exam questions - Vignettes and photos of key mathematicians **Linear Algebra Step by Step Oxford University Press** "This book is intended for first- and second-year undergraduates arriving with average mathematics grades ... The strength of the text is in the large number of examples and the step-by-step explanation of each topic as it is introduced. It is compiled in a way that allows distance learning, with explicit solutions to all of the set problems freely available online <http://www.oup.co.uk/companion/singh>" -- From preface. **Ecological and Practical Applications for Sustainable Agriculture Springer Nature** Rampant industrialization, urbanization, and population growth have resulted in increased global environmental contamination. The productivity of agricultural soil is drastically deteriorated and requires a high dose of fertilizers to cultivate crops. To ensure food security, farmers are compelled to apply excess chemical fertilizers and insecticides that contaminate soil, air, and water. Heavy loads of chemical fertilizers not only degrade the quality of agricultural land but also pollute water and air. Use of chemical fertilizers also accelerate the release of greenhouse gases like nitrous oxide and methane along with nutrient runoff from the watershed in to lower elevation rivers and lakes, resulting in cultural eutrophication. Farming practices globally in developed, developing, and under-developing countries should utilize and promote sustainable methods through viable combined environmental, social, and economic means that improve rather than harm future generations. This can include use of non-synthetic fertilizers like compost, vermicompost, slow-release fertilizers, farmyard manures, crop rotations that include nitrogen-fixing legumes. Organic fertilizers like compost and vermicompost improve soil properties like texture, porosity, water-holding capacity, organic matter, as well as nutrient availability. The purpose of this book is to document the available alternatives of synthetic fertilizers, their mode of action, efficiency, preparation methodology, practical suggestions for sustainable practices, and needed research focus. The book will cover major disciplines like plant science, environmental science, agricultural science, agricultural biotechnology and microbiology, horticulture, soil science, atmospheric science, agro-forestry, agronomy, and ecology. This book is helpful for farmers, scientists, industrialists, research scholars, masters and graduate students, non-governmental organizations, financial advisers, and policy makers. **Engineering Mathematics Through Applications Red Globe Press** Teaches maths in a step-by-step fashion, ideal for students in first-year engineering courses. Includes hundreds of examples and exercises, mainly set in an applied engineering context -- Back cover. **Phytoremediation Potential of Bioenergy Plants Springer** The globally escalating population necessitates production of more goods and services to fulfil the expanding demands of human beings which resulted in urbanization and industrialization. Uncontrolled industrialization caused two major problems – energy crisis and accelerated environmental pollution throughout the world. Presently, there are technologies which have been proposed or shown to tackle both the problems. Researchers continue to seek more cost effective and environmentally beneficial pathways for problem solving. Plant kingdom comprises of species which have the potential to resolve the couple problem of pollution and energy. Plants are considered as a potential feedstock for development of renewable energy through biofuels. Another important aspect of plants is their capacity to sequester carbon dioxide and absorb, degrade, and stabilize environmental pollutants such as heavy metals, poly-aromatic hydrocarbons, poly-aromatic biphenyls, radioactive materials, and other chemicals. Thus, plants may be used to provide renewable energy generation and pollution mitigation. An approach that could amalgamate the two aspects can be achieved through phytoremediation (using plants to clean up polluted soil and water), and subsequent generation of energy from the phyto-remediator plants. This would be a major advance in achieving sustainability that focuses on optimizing ‘people’ (social issues), ‘planet’ (environmental issues), and ‘profit’ (financial issues). The “Phytoremediation-Cellulosic Biofuels” (PCB) process will be socially beneficial through reducing pollution impacts on people, ecologically beneficial through pollution abatement, and economically viable through providing revenue that supplies an energy source that is renewable and also provides less dependence on importing foreign energy (energy-independence). The utilization of green plants for pollution remediation and energy production will also tackle some other important global concerns like global climate change, ocean acidification, and land degradation through carbon sequestration, reduced emissions of other greenhouse gases, restoration of degraded lands and waters, and more. This book addresses the overall potential of major plants that have the potential to fulfil the dual purposes of phytoremediation and energy generation. The non-edible bioenergy plants that are explored for this dual objective include *Jatropha curcas*, *Ricinus communis*, *Leucaena leucocephala*, *Milletia pinnata*, *Canabis sativa*, *Azadirachta indica*, and *Acacia nilotica*. The book addresses all possible aspects of phyto-remediation and energy generation in a holistic way. The contributors are one of most authoritative experts in the field and have covered and compiled the best content most comprehensively. The book is going to be extremely useful for researchers in the area, research students, academicians and also for policy makers for an inclusive understanding and assessment of potential in plant kingdom to solve the dual problem of energy and pollution. **Winning on HR Analytics Leveraging Data for Competitive Advantage SAGE Publications India** In a dynamic world, the role of HR is central in tapping the vast potential of human capital, and interestingly, blending it with automation and digitization in unique ways. HR analytics is pivotal in identifying, measuring and articulating the objectives and outcomes of different programs. What if you can: • Predict which high performers were at risk of leaving six months before they walked out the door? • Merge external data with your own business metrics to project workforce demand six, nine or even eighteen months from now? • Triage incoming resumes overnight to predict employee success and tenure before you hire? All this and more is possible with sophisticated technology and analytics as demonstrated by companies such as Google, Walmart, and American Express. To leverage analytics, you need to walk a path through reliable data, techniques of analysis, and formulation of hypothesis. This book is a practical, do it yourself handbook to convert analytics into an area of strength and maintain competitive advantage. **WHO consolidated guidelines on tuberculosis tuberculosis preventive treatment World Health Organization** The WHO consolidated guidelines on tuberculosis: tuberculosis preventive treatment provides a comprehensive set of recommendations for programmatic management of tuberculosis preventive treatment (PMTPT) geared towards the implementers of the WHO End TB Strategy and also for countries intent upon TB elimination (9). The guidelines are to be used primarily in national TB and HIV and maternal and child programmes or their equivalents in ministries of health and for other policy-makers working on TB, HIV, infectious diseases and maternal and child health. They are also appropriate for staff of ministries of justice, correctional services and other government agencies which deliver healthcare, including prison services, social services and immigration. The guidelines are also intended for clinicians in the public or the private sectors working on TB, HIV, infectious diseases, prevention, child health and noncommunicable diseases such as chronic kidney disease and cancer. The persons directly affected by the guidelines are risk groups for whom TB preventive treatment is recommended. **Digital Cities Roadmap IoT-Based Architecture and Sustainable Buildings John Wiley & Sons** DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities. **Number Theory Step by Step Oxford University Press** Number theory is one of the oldest branches of mathematics that is primarily concerned with positive integers. While it has long been studied for its beauty and elegance as a branch of pure mathematics, it has seen a resurgence in recent years with the advent of the digital world for its modern applications in both computer science and cryptography. Number Theory: Step by Step is an undergraduate-level introduction to number theory that assumes no prior knowledge, but works to gradually increase the reader's confidence and ability to tackle more difficult material. The strength of the text is in its large number of examples and the step-by-step explanation of each topic as it is introduced to help aid understanding the abstract mathematics of number theory. It is compiled in such a way that allows self-study, with explicit solutions to all the set of problems freely available online via the companion website. Punctuating the text are short and engaging historical profiles that add context for the topics covered and provide a dynamic background for the subject matter. **Organizational Rhetoric Situations and Strategies SAGE** Organizational Rhetoric introduces students to a rhetorical approach to understanding, analyzing and creating organizational messages for both internal employees and external customers. This textbook provides students a theoretically-grounded understanding of the basic building blocks of organizational rhetoric, the types of rhetorical situations faced by organizational communicators, and the specific strategies used to address six common organizational rhetorical situations (such as image management). Students will gain an understanding of the power of organizations in contemporary society and be able to think critically about organizational messages. The text is organized in two units. In the first unit, authors Mary Hoffman and Debra Ford introduce the rationale for a rhetorical approach to organizational messages, and introduce the basic rhetorical building blocks and principles behind the rhetorical situation and the analysis of strategies. In the second unit, the authors cover six specific rhetorical situations commonly faced by organizations, image and identity management, issue management, impression management, risk management, crisis management and organizational apoloia, and internal message management. Each chapter is structured similarly, in conjunction with the ideas developed in unit one, and each ends with a case study that exemplifies the content presented in that chapter. Features and Benefits: - The first unit in the text will introduce the details of analyzing situations and identifying strategies - The second unit will examine six specific recurring rhetorical situations for organizations - Organizational schema centered on situations and strategies - Use of real-life case studies - Focus on careers in organizational rhetoric - Focus on thinking critically about organizations in

society **Step by Step Ultrasound in Obstetrics Prosocial Using Evolutionary Science to Build Productive, Equitable, and Collaborative Groups New Harbinger Publications** A groundbreaking, comprehensive program for designing effective and socially equitable groups of all sizes—from businesses and social justice groups to global organizations. Whether you work in business or schools, volunteer in neighborhoods or church organizations, or are involved in social justice and activism, you understand the enormous power of groups to enact powerful and lasting change in the world. But how exactly do you design, build, and sustain effective groups? Based on the work of Nobel Prize winning economist Elinor Ostrom and grounded in contextual behavioral science, evolutionary science, and acceptance and commitment therapy (ACT), Prosocial presents a practical, step-by-step approach to help you energize and strengthen your business or organization. Using the Prosocial model, you'll learn to design groups that are more harmonious, have better member or employee retention, have better relationships with other groups or business partners, and have more success and longevity. Most importantly, you'll learn to target the characteristics that foster cooperation and collaboration—key ingredients for any effective group. **Management for Social Enterprise SAGE** Electronic Inspection Copy available for instructors here `Management for Social Enterprise is a great introduction to the rich variety of social enterprises in the UK. It is also a useful tool to help us to build more effective social enterprises that really deliver on their missions by people who have hands on experience. This is just what the rapidly growing social enterprise sector needs, a management manual to help us take social enterprises to the next level by people who have hands on experience' - Sophi Tranchell, Managing Director of Divine Chocolate Ltd and Cabinet Office sponsored Social Enterprise Ambassador `The recent explosive growth in the number of social enterprises, their diverse and dynamic nature, and the upsurge in research about them all makes this a potentially bewildering field of knowledge to explore. This book provides a clear and timely guide to the management challenges involved in understanding and running social enterprises, and underlines why their unique nature requires something more than just standard business school wisdom' - Ken Peattie, Professor of Marketing and Strategy, Cardiff Business School, and Director of the ESRC Centre for Business Relationships, Accountability, Sustainability and Society `Provides a good introduction to the management of social enterprises touching on a broad range of topics and will help those involved in managing social enterprises and those trying to understand more about the sector. It draws on the experience of those who have worked in the social enterprise sector in a range of countries and are passionate about developing it' - Fergus Lyon, Professor of Enterprise and Organizations, Middlesex University Overviewing the key business topics required by social entrepreneurs, and managers in social enterprises Management for Social Enterprise covers strategy, finance, ethics, social accounting, marketing and people management. Written in direct, accessible language by a team of authors currently teaching and researching in this sector, each chapter is fully supported with learning resources. Chapters include brief overviews, further reading, suggested web resources and, importantly, international case studies, drawing on real-life business examples. This book is essential reading for students and practitioners of Social Entrepreneurship and Social Enterprise, but will also be of use to anyone with an interest in management, corporate responsibility, ethics or community studies. Click here for the LJMU Social Enterprise Management web pages. **New Trends in Nanotechnology and Fractional Calculus Applications Springer Science & Business Media** In recent years fractional calculus has played an important role in various fields such as mechanics, electricity, chemistry, biology, economics, modeling, identification, control theory and signal processing. The scope of this book is to present the state of the art in the study of fractional systems and the application of fractional differentiation. Furthermore, the manufacture of nanowires is important for the design of nanosensors and the development of high-yield thin films is vital in procuring clean solar energy. This wide range of applications is of interest to engineers, physicists and mathematicians. **Organization Development Interventions and Strategies Emerge 20 The Writer's Studio Anthology** This special 20th anniversary anthology invites you to journey outside yourself: float in a capsized rowboat, downward-dog through a yoga studio adapting to covid-19, reflect on the legacy of residential schools, find purpose on the Camino de Santiago, and make peace with your raccoon neighbours. These are stories of ego, loss, birth, renewal—the salient issues of our time. In emerge 20, stories in fiction, narrative non-fiction, speculative fiction, young adult fiction, poetry, and lyric prose isolate the everyday tales of human resilience and solidarity that will leave you wanting more from these emerging writers. CONTENTS Betsy Warland-Foreword FICTION Dora Joella Prieto-The Last Wisdom Tooth Elliott Gish-Grey Dog B. B. Randhawa-The Woman Who Thought She Was a Cow Teminey Beckers-My Name Is Badger Dora Larson-The Apartment Prachi Kamble-World Class Education Barbara Cameron-Unconsecrated Ground Angela Kruger-Hotel Blue: Stories Frederic Sahyouni-The Fragrant Harbour Colleen Doty-All About Isaac Libby Soper-The Anniversary Cakeeve nixen-Two stories Sarah Phillips-Thin-Grasping at the Pineapple Francesca Mauri -The Day of Her Disappearance Anya Wyers-Romilegal: Downtown Uttara Krishnadas-Infectious Judy Derksen-Not the Namib Desert Magnus Lu-Ten Days of Undoing Stephanie Peters-The Upset DK Eve-Lunch Shift at the Castle Café Tanya Belanger-The Last Stop Visnja Milidragovic-Happy Hour Rebecca Chan-An Unnatural Widow Hugh Griffith-The Snake Club Sandra Sugimoto-Sisters Christina Kruger-Woodrow-Lie Fallow NON-FICTION Katie Lewis-Nuts William W. Campbell-Amusia and Ravel's Boléro Kim Spencer-Two pieces Lori Greenfield-The Tuesday Ladies Emily Chan-Living in Ms. Shauna Roberts's Apartment Justyna Krol-System Failure Emma Brady-The Bedroom Nancy Jin-Guifang Deborah Folka-Dessert in the Desert Shenul Dhalla-Hope for a Cure Christine Pilgrim-Goodbye Maryanna Gabriel-Get Thee to a Nunnery Ola Szczecinska-Big Sur Calvin McShane-Catching the Way Zendo Margaret Miller-Two pieces Anne Rosenberg-Two pieces Kate Covello-Disruption and Innovation: Yoga Teacher Training After covid-19 Ankush Chopra-Stay the Course SPECULATIVE AND YA FICTION Jenn Marx-Electric Blue Tongue Jess Wesley-The Curse of the Fairy Queen Hannah Costelle-The Dressmaker of Drumchapel Diane Dubas-Enough Clare McNamee-Annett-We Are Doing Fine Libby McKeever-What Came Before Katherine Fawcett-Ursula Medium Sky Regina-We Are Apricots Tim J. O'Connor-Kath's Party Erin Pettit-Gilded City Elizabeth Page-Price of Privilege Daniel Ortiz Rubio-Purple Stain Sofia Pezentte-The Blameless One Stephanie Charette-To Hunt the Mountain Léa Taranto-Kiss the Ground Susan Taite-Glimmers Jack Murphy-Hyper Neon Cowboy Bailey Bjolin-Dome Danica Longair-Hope Is a Necessary Delusion Robert Weber-The End Is ... Mundane? POETRY Alana Cheyne-Three poems Ela Przybylo-Two poems Anna Lee-Popham-Three poems Brandon Houston-Can I Pray for You Kuldeep Singh-Five poems Pinki Li-To the Family of Raccoons Who Moved in Late Last Week Sarah Jessie Tucker-Four poems F. J. Erica Yang-The Frightfully Pale Yellow Laura McGavin-Two poems Clare Adam-Two poems Amrit Kaur Sanghera-Moving Another Way Marco Melfi-A Model From Bosch's The Garden of Earthly Delights Reminisces Michael Edwards-Two poems Tharuna Abbu-Three poems **Textbook of Plastic and Reconstructive Surgery UCL Press** Written by experts from London's renowned Royal Free Hospital, Textbook of Plastic and Reconstructive Surgery offers a comprehensive overview of the vast topic of reconstructive plastic surgery and its various subspecialties for introductory plastic surgery and surgical science courses. The book comprises five sections covering the fundamental principles of plastic surgery, cancer, burns and trauma, paediatric plastic surgery and aesthetic surgery, and covers the breadth of knowledge that students need to further their career in this exciting field. Additional coverage of areas in which reconstructive surgery techniques are called upon includes abdominal wall reconstruction, ear reconstruction and genital reconstruction. A chapter on aesthetic surgery includes facial aesthetic surgery and blepharoplasty, aesthetic breast surgery, body contouring and the evolution of hair transplantation. The broad scope of this volume and attention to often neglected specialisms such as military plastic surgery make this a unique contribution to the field. Heavily illustrated throughout, Textbook of Plastic and Reconstructive Surgery is essential reading for anyone interested in furthering their knowledge of this exciting field. This book was produced as part of JISC's Institution as e-Textbook Publisher project. Find out more at <https://www.jisc.ac.uk/rd/projects/institution-as-e-textbook-publisher> **Linear Algebra and Linear Models Springer Science & Business Media** This book provides a rigorous introduction to the basic aspects of the theory of linear estimation and hypothesis testing, covering the necessary prerequisites in matrices, multivariate normal distribution and distributions of quadratic forms along the way. It will appeal to advanced undergraduate and first-year graduate students, research mathematicians and statisticians. **Sustainable Communication Networks and Application Proceedings of ICSCN 2021 Springer** This book includes high-quality research papers presented at 3rd International Conference on Sustainable Communication Networks and Applications (ICSCN 2021), which is held at Surya Engineering College (SEC), Erode, India, during 29-30 July 2021. This book includes novel and state-of-the-art research discussions that articulate and report all research aspects, including theoretical and experimental prototypes and applications that incorporate sustainability into emerging applications. The book discusses and articulates emerging challenges in significantly reducing the energy consumption of communication systems and also explains development of a sustainable and energy-efficient mobile and wireless communication network. It includes best selected high-quality conference papers in different fields such as Internet of Things, cloud computing, data mining, artificial intelligence, machine learning, autonomous systems, deep learning, neural networks, renewable energy sources, sustainable wireless communication networks, QoS, network sustainability, and many other related areas. **Global Tuberculosis Report 2019 WHO** has published a global TB report every year since 1997. The main aim of the report is to provide a comprehensive and up-to-date assessment of the TB epidemic, and of progress in prevention, diagnosis and treatment of the disease, at global, regional and country levels. This is done in the context of recommended global TB strategies and targets endorsed by WHO's Member States, broader development goals set by the United Nations (UN) and targets set in the political declaration at the first UN high-level meeting on TB (held in September 2018). The 2019 edition of the global TB report was released on 17 October 2019. The data in this report are updated annually. Please note that direct comparisons between estimates of TB disease burden in the latest report and previous reports are not appropriate. The most recent time-series of estimates are published in the 2019 global TB report. **Advances in Communication and Computational Technology Select Proceedings of ICACCT 2019 Springer Nature** This book presents high-quality peer-reviewed papers from the International Conference on Advanced Communication and Computational Technology (ICACCT) 2019 held at the National Institute of Technology, Kurukshetra, India. The contents are broadly divided into four parts: (i) Advanced Computing, (ii) Communication and Networking, (iii) VLSI and Embedded Systems, and (iv) Optimization Techniques. The major focus is on emerging computing technologies and their applications in the domain of communication and networking. The book will prove useful for engineers and researchers working on physical, data link and transport layers of communication protocols. Also, this will be useful for industry professionals interested in manufacturing of communication devices, modems, routers etc. with enhanced computational and data handling capacities. **Machine Learning and Deep Learning in Real-Time Applications IGI Global** Artificial intelligence and its various components are rapidly engulfing almost every professional industry. Specific features of AI that have proven to be vital solutions to numerous real-world issues are machine learning and deep learning. These intelligent agents unlock higher levels of performance and efficiency, creating a wide span of industrial applications. However, there is a lack of research on the specific uses of machine/deep learning in the professional realm. Machine Learning and Deep Learning in Real-Time Applications provides emerging research exploring the theoretical and practical aspects of machine learning and deep learning and their implementations as well as their ability to solve real-world problems within several professional disciplines including healthcare, business, and computer science. Featuring coverage on a broad range of topics such as image processing, medical improvements, and smart grids, this book is ideally designed for researchers, academicians, scientists, industry experts, scholars, IT professionals, engineers, and students seeking current research on the multifaceted uses and implementations of machine learning and deep learning across the globe. **Advances in Remote Sensing for Natural Resource Monitoring John Wiley & Sons** Sustainable management of natural resources is an urgent need, given the changing climatic conditions of Earth systems. The ability to monitor natural resources precisely and accurately is increasingly important. New and advanced remote sensing tools and techniques are continually being developed to monitor and manage natural resources in an effective way. Remote sensing technology uses electromagnetic sensors to record, measure and monitor even small variations in natural resources. The addition of new remote sensing datasets, processing techniques and software makes remote sensing an exact and cost-effective tool and technology for natural resource monitoring and management. Advances in Remote Sensing for Natural Resources Monitoring provides a detailed overview of the potential applications of advanced satellite data in natural resource monitoring. The book determines how environmental and - ecological knowledge and satellite-based information can be effectively combined to address a wide array of current natural resource management needs. Each chapter covers different aspects of remote sensing approach to monitor the natural resources effectively, to provide a platform for decision and policy. This important work: Provides comprehensive coverage of advances and applications of remote sensing in natural resources monitoring Includes new and emerging approaches for resource monitoring with case studies Covers different aspects of forest, water, soil- land resources, and agriculture Provides exemplary illustration of themes such as glaciers, surface runoff, ground water potential and soil moisture content with temporal analysis Covers blue carbon, seawater intrusion, playa wetlands, and wetland inundation with case studies Showcases disaster studies s **Python for Beginners CRC Press** Python is an amazing programming language. It can be applied to almost any programming task. It allows for rapid development and debugging. Getting started with Python is like learning any new skill: it's important to find a resource you connect with to guide your learning. Luckily, there's no shortage of excellent books that can help you learn both the basic concepts of programming and the specifics of programming in Python. With the abundance of resources, it can be difficult to identify which book would be best for your situation. Python for Beginners is a concise single point of reference for all material on python. -Provides concise, need-to-know information on Python types and statements, special method names, built-in functions and exceptions, commonly used standard library modules, and other prominent Python tools -Offers practical advice for each major area of development with both Python 3.x

and Python 2.x -Based on the latest research in cognitive science and learning theory -Helps the reader learn how to write effective, idiomatic Python code by leveraging its best--and possibly most neglected--features This book focuses on enthusiastic research aspirants who work on scripting languages for automating the modules and tools, development of web applications, handling big data, complex calculations, workflow creation, rapid prototyping, and other software development purposes. It also targets graduates, postgraduates in computer science, information technology, academicians, practitioners, and research scholars. **Biointerface Engineering: Prospects in Medical Diagnostics and Drug Delivery Springer Nature** This book provides detailed information on the surface and surface chemistry of various biointerfaces for the understanding and development of biosensors, biocompatible devices, and drug delivery systems. It highlights the role of interfacial phenomena towards the behaviour of biomolecules on different surfaces and their significance in recent applications. The book also addresses various surface engineering techniques for the modification of biomaterials that are implemented for improving biocompatibility. It provides an updated scientific concept of various interactions of biological systems with surfaces/modified surfaces at the molecular and cellular level. The chapters include various in-vitro, in-vivo, ex-vivo models to illustrate various aspects of Biointerface Engineering. Finally, the book elucidates troubleshooting strategies and future prospects of Biointerface Engineering in Medical Diagnostics and Drug Delivery. **Computational Welding Mechanics Springer Science & Business Media** Computational Welding Mechanics (CWM) provides readers with a complete introduction to the principles and applications of computational welding including coverage of the methods engineers and designers are using in computational welding mechanics to predict distortion and residual stress in welded structures, thereby creating safer, more reliable and lower cost structures. Drawing upon years of practical experience and the study of computational welding mechanics the authors instruct the reader how to: - understand and interpret computer simulation and virtual welding techniques including an in depth analysis of heat flow during welding, microstructure evolution and distortion analysis and fracture of welded structures, - relate CWM to the processes of design, build, inspect, regulate, operate and maintain welded structures, - apply computational welding mechanics to industries such as ship building, natural gas and automobile manufacturing. Ideally suited for practicing engineers and engineering students, Computational Welding Mechanics is a must-have book for understanding welded structures and recent technological advances in welding, and it provides a unified summary of recent research results contributed by other researchers. **Recent Advances in Mechanical Engineering Select Proceedings of RAME 2020 Springer Nature** This book presents the select proceedings of the second International Conference on Recent Advances in Mechanical Engineering (RAME 2020). The topics covered include aerodynamics and fluid mechanics, automation, automotive engineering, composites, ceramics and polymers processing, computational mechanics, failure and fracture mechanics, friction, 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, 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, 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 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. **Integration and Implementation of the Internet of Things Through Cloud Computing IGI Global** The internet of things (IoT) has drawn great attention from both academia and industry, since it offers a challenging notion of creating a world where all things around us are connected to the internet and communicate with each other with minimal human intervention. Another component for helping IoT to succeed is cloud computing. The combination of cloud computing and IoT will enable new monitoring services and powerful processing of sensory data streams. These applications, alongside implementation details and challenges, should also be explored for successful mainstream adoption. IoT is also fueled by the advancement of digital technologies, and the next generation era will be cloud-based IoT systems. Integration and Implementation of the Internet of Things Through Cloud Computing studies, analyzes, and presents cloud-based IoT-related technologies, protocols, and standards along with recent research and development in cloud-based IoT. It also presents recent emerging trends and technological advances of cloud-based IoT, innovative applications, and the challenges and implications for society. The chapters included take a strong look at the societal and social aspects of this technology along with its implementations and technological analyses. This book is intended for IT specialists, technologists, practitioners, researchers, academicians, and students who are interested in the next era of IoT through cloud computing. **Computer and Cyber Security Principles, Algorithm, Applications, and Perspectives CRC Press** This is a monumental reference for the theory and practice of computer security. Comprehensive in scope, this text covers applied and practical elements, theory, and the reasons for the design of applications and security techniques. It covers both the management and the engineering issues of computer security. It provides excellent examples of ideas and mechanisms that demonstrate how disparate techniques and principles are combined in widely-used systems. This book is acclaimed for its scope, clear and lucid writing, and its combination of formal and theoretical aspects with real systems, technologies, techniques, and policies. **The Mungbean Genome Springer Nature** This book reports on the current global status of mungbean and its economic importance. Mungbean (*Vigna radiata*)—also called green gram—is an important food and cash crop in the rice-based farming systems of South and Southeast Asia, but is also grown in other parts of the world. Its short duration, low input requirement and high global demand make mungbean an ideal rotation crop for smallholder farmers. The book describes mungbean collections maintained by various organizations and their utilization, especially with regard to adapting mungbean to new environments. It provides an overview of the progress made in breeding for tolerance to biotic and abiotic stresses; nutritional quality enhancement including genomics approaches; and outlines future challenges for mungbean cultivation. In addition, genomic approaches to evaluating the evolutionary relationship between *Vigna* species and addressing questions concerning domestication, adaptation and genotype-phenotype relationships are also discussed **Advanced Informatics for Computing Research First International Conference, ICAICR 2017, Jalandhar, India, March 17-18, 2017, Revised Selected Papers Springer** This book constitutes the refereed proceedings of the First International Conference on Advanced Informatics for Computing Research, ICAICR 2017, held in Jalandhar, India, in March 2017. The 32 revised full papers presented were carefully reviewed and selected from 312 submissions. The papers are organized in topical sections on computing methodologies, information systems, security and privacy, network services. **Rice Nutrient Disorders & Nutrient Management Int. Rice Res. Inst.** Rice ecosystems; Nutrient management; Mineral deficiencies; Mineral toxicities; Tools and information. **Smart Systems and IoT: Innovations in Computing Proceeding of SSIC 2019 Springer** The book features original papers from the 2nd International Conference on Smart IoT Systems: Innovations and Computing (SSIC 2019), presenting scientific work related to smart solution concepts. It discusses computational collective intelligence, which includes interactions between smart devices, smart environments and smart interactions, as well as information technology support for such areas. It also describes how to successfully approach various government organizations for funding for business and the humanitarian technology development projects. Thanks to the high-quality content and the broad range of the topics covered, the book appeals to researchers pursuing advanced studies. **Nutraceuticals Production from Plant Cell Factory Springer** This book focuses on in vitro techniques and challenges of producing nutraceutical compounds from plant cells. In addition, it provides an overview of different biosynthesis pathways and their modulation through cell culture techniques for the production of nutraceutical compounds in high quantity and quality. It also includes the assessment of the factors influencing production and advances in cell culture techniques, including the scale-up approach using bioreactors. Lastly it provides valuable suggestion for future research. **Beyond The Lines: An Autobiography Roli Books Private Limited** A veteran journalist and former member of Parliament, Kuldip Nayar is India's most well known and widely syndicated journalist. He was born in Sialkot in 1923 and educated at Lahore University before migrating to Delhi with his family at the time of Partition. He began his career in the Urdu newspaper Anjam and after a spell in the USA worked as information officer of Lal Bahadur Shastri and Govind Ballabh Pant. He eventually became Resident Editor of the Statesman and managing editor of the Indian news agency UNI. He corresponded for the Times for twenty-five years and later served as Indian high commissioner to the UK during the V.P. Singh government. His stand for press freedom during the Emergency, when he was detained; his commitment to better relations between India and Pakistan, and his role as a human rights activist have won him respect and affection in both countries. Author of more than a dozen books, his weekly columns are read across South Asia. **Data Science and Analytics 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, Gurugram, India, November 15-16, 2019, Revised Selected Papers, Part II Springer** This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics. **3D Printing of Pharmaceuticals Springer** 3D printing is forecast to revolutionise the pharmaceutical sector, changing the face of medicine development, manufacture and use. Potential applications range from pre-clinical drug development and dosage form design through to the fabrication of functionalised implants and regenerative medicine. Within clinical pharmacy practice, printing technologies may finally lead to the concept of personalised medicines becoming a reality. This volume aims to be the definitive resource for anyone thinking of developing or using 3D printing technologies in the pharmaceutical sector, with a strong focus on the translation of printing technologies to a clinical setting. This text brings together leading experts to provide extensive information on an array of 3D printing techniques, reviewing the current printing technologies in the pharmaceutical manufacturing supply chain, in particular, highlighting the state-of-the-art applications in medicine and discussing modern drug product manufacture from a regulatory perspective. This book is a highly valuable resource for a range of demographics, including academic researchers and the pharmaceutical industry, providing a comprehensive inventory detailing the current and future applications of 3D printing in pharmaceuticals. Abdul W. Basit is Professor of Pharmaceutics at the UCL School of Pharmacy, University College London. Abdul's research sits at the interface between pharmaceutical science and gastroenterology, forging links between basic science and clinical outcomes. He leads a large and multidisciplinary research group, and the goal of his work is to further the understanding of gastrointestinal physiology by fundamental research. So far, this knowledge has been translated into the design of new technologies and improved disease treatments, many of which are currently in late-stage clinical trials. He has published over 350 papers, book chapters and abstracts and delivered more than 250 invited research presentations. Abdul is also a serial entrepreneur and has filed 25 patents and founded 3 pharmaceutical companies (Kuecept, Intract Pharma, FabRx). Abdul is a frequent speaker at international conferences, serves as a consultant to many pharmaceutical companies and is on the advisory boards of scientific journals, healthcare organisations and charitable bodies. He is the European Editor of the International Journal of Pharmaceutics. Abdul was the recipient of the Young Investigator Award in Pharmaceutics and Pharmaceutical Technology from the American Association of Pharmaceutical Scientists (AAPS) and is the only non-North American scientist to receive this award. He was also the recipient of the Academy of Pharmaceutical Sciences (APS) award. Simon Gaisford holds a Chair in Pharmaceutics and is Head of the Department of Pharmaceutics at the UCL School of Pharmacy, University College London. He has published 110 papers, 8 book chapters and 4 authored books. His research is focused on novel technologies for manufacturing medicines, particularly using ink-jet printing and 3D printing, and he is an expert in the physico-chemical characterisation of compounds and formulations with thermal methods and calorimetry. **Drugs During Pregnancy and Lactation Treatment Options and Risk Assessment Academic Press** Drugs During Pregnancy and Lactation, 3rd Edition is a quick and reliable reference for all those working in disciplines related to fertility, pregnancy, lactation, child health and human genetics who prescribe or deliver medicinal products, and to those who evaluate health and safety risks. Each chapter contains twofold information regarding drugs that are appropriate for prescription during pregnancy and an assessment of the risk of a drug when exposure during pregnancy has already occurred. Thoroughly updated with current regulations, references to the latest pharmacological data, and new medicinal products, this edition is a comprehensive resource covering latest knowledge and findings related to drugs during lactation and pregnancy. Provides evidence-based recommendations to help clinicians make appropriate recommendations Uniquely organized and structured according to drug class and treatment indications to offer authoritative clinical content on potential adverse effects Highlights new research developments from primary source about working mechanism of substances that cause developmental disorders **How Green was the Vale of Kashmir Notion Press** Kashmir, the ultimate tourist destination that attracts millions of adventurers and tourists from all across the world for more than a century, is much more than the well-beaten destinations like Dal Lake, Mughal Gardens, Gulmarg and Pahalgam. The uniqueness of the valley can only be fully appreciated if its mountains, lakes, temperate and alpine forests and its wildlife, which give the valley a special status, are considered in totality with interdependence between one another. This beautifully illustrated book written in real-life storytelling style will captivate the reader as it chronicles a journey spanning at least seven decades in the life of the Valley of Kashmir and its priceless natural bounty. A special feature of the book is that it introduces the reader to the diverse natural wonders of Kashmir with authoritative data and information with relevant colour photographs featuring Kashmir's: § High-altitude lakes, § Alpine forests and environment, § Wildlife and migratory birds, § Snow-fed streams and trout, § And horticultural

produce, to name a few. Ten well-researched chapters on the above topics, including Kashmir's saffron, capital city Srinagar and its changing scenario and the valley's agriculture scene with authentic data, shows that the Kashmir of today and 70 years ago are two worlds apart. **Advances in Clean Energy Technologies Select Proceedings of ICET 2020 Springer Nature** This book presents select proceedings of the international conference on Innovations in Clean Energy Technologies (ICET 2020) and examines a range of durable, energy efficient and next-generation smart green technologies for sustainable future by reflecting on the trends, advances and development taking place all across the globe. The topics covered include smart technologies based product, energy efficient systems, solar and wind energy, carbon sequestration, green transportation, green buildings, energy material, biomass energy, smart cities, hydro power, bio-energy and fuel cell. The book also discusses various performance attributes of these clean energy technologies and their workability and carbon footprint. The book will be a valuable reference for beginners, researchers and professionals interested in clean energy technologies.