

Hc Taneja Volume 1 Solutions

This volume contains 74 papers presented at SCI 2016: First International Conference on Smart Computing and Informatics. The conference was held during 3-4 March 2017, Visakhapatnam, India and organized communally by ANITS, Visakhapatnam and supported technically by CSI Division V – Education and Research and PRF, Vizag. This volume contains papers mainly focused on applications of advanced intelligent techniques to video processing, medical imaging, machine learning, sensor technologies, and network security.

Multiple senses, like multiple intelligences, are a key to brain variability and therefore human evolution. Besides the traditional five senses (vision, olfaction, gustation, audition, and somatosensory), humans can also perceive the body's own position (the sense of proprioception) and movement (the vestibular sense). Interoception is the feeling one has about the internal physiological conditions of the entire body. Additionally there is a sense of intuition, also known as the sixth sense. Despite their best efforts, researchers are still unable to concur in specifying the nature of the sixth sense; some consider the sense of proprioception as the sixth sense, whereas others prefer to consider that as a part of interoception. This book will provide a scientific system for the human sixth sense using relevant biophysical and neurophysiological evidence. The power of "sixth sense" seems to be underestimated, due to difficulties in defining the concept clearly. According to socioeconomics and neural physics, the sixth sense is that which permits humans to create perception or to enhance the quality of their perception of events. Roughly speaking, the sixth sense engages a metacognitive process through which prior knowledge and the information received from other sensory modalities are synergized. It is not restricted to specific arrow of time and type of mind or to the observer's body, but it considers all arrows of time (past, present, future), types of mind (conscious and unconscious), and physical bodies (self and other). However it is expected that the observer has specific biases towards what happens now or would happen in the future and its relation to himself. Particularly, humans appeal to the sixth sense on the road to achieving success in social competitions and to reduce uncertainty in complex decision making processes. In addition to evidence linking genetic components to the sixth sense submodalities, there have been developed strategies for increasing the quality of perceptions provided by the sixth sense. Meditation, through which individuals try to be detached from the world, increases gamma-band activity and that increased gamma-band activity is found following top-down processing. Therefore it can be inferred that the detachment from the environment may enhance synchronization of the wave functions in favor of strengthening the sixth sense. It can serve as the mechanism of enhancement of the sixth sense in those whose sensory systems are intact, it can also serve as the mechanism of compensation in those who have sensory deficiencies. In the latter case, it in fact encourages creativity in the

use of relatively strong senses. This justifies Beethoven's deafness and his great musical creativity or Bramblitt's blindness and his enormous capability to paint and many other similar examples. In summary, the present book is divided into five parts. Part 1 (chapters 1-6) provides information about the system of proprioception and its neurophysiology and biophysics. Part 2 (chapters 7-10) examines the system of interoception. The information provided in these two parts would enable us to move towards the next three parts of the story, aimed at developing a scientific system of the sixth sense. The first chapter of part 3 begins with concepts and uses them to arrive at reasonable conclusion that there must be a sense that requires multistep information processing and that is separate from the sense of proprioception and the sense of interoception. Such sense is commonly known as the sixth sense. However it should be re-numbered because the sense of proprioception is already known as the sixth sense. The second chapter of this part is to draw neurocircuitry that innervates the sixth sense in the mind of a man, while the third chapter would address the questions whether the sixth sense system requires an optimal competence or consciousness of mind to function properly and if so which is the optimal state: conscious or unconscious and competence or incompetence. In the fourth chapter of this part, we will focus on the self-other mergence as a pivotal step of the sixth sense system. The next chapter would be of great interest to neurobiologists. It talks about that the human sixth sense of the unseen world, either the unseen arrow of time or the unseen events, requires creativity and therefore the human sixth sense should be considered a source of creativity, variability and thus evolution. In the sixth chapter, the sixth sense is viewed as an economic activity stimulated by social environments. This chapter arisen from the fact that humans are full of enthusiasm to heighten their sixth sense and its accuracy and that they owe their enthusiasm largely to achieving the best possible profit and in other words to wining intense competitions in their life holds mainly on the concept of elasticity. Finally this part is finished by an amazing discussion on the art of the sixth sense. The first chapter of part 4 discusses physical theories that support the existence of sixth sense in the universe. The next chapter is to apply the Bayes' theory to the sixth sense, leading to the conclusion that the sixth sense improves multisensory integration through optimizing uncertainty of information received from other sensory modalities. Chapter three in this part would address whether relative timing is applicable to the sixth sense like other senses. The last part of book aimed at directly discussing the sixth sense into the context of human health and behavior is organized into four chapters. The first chapter is to discuss neurodevelopmental changes in the sixth sense, while the second and third ones will discuss that in relation to psychiatric and neurological disorders. The most striking question how much power the sixth sense the sixth sense have over human health and behavior is addressed in the fourth chapter of this part and final chapter of book, which will be prepared using neural network models and sophisticated portraits

possible for the system of sixth sense.

A revision of the market leader, Kreyszig is known for its comprehensive coverage, careful and correct mathematics, outstanding exercises, helpful worked examples, and self-contained subject-matter parts for maximum teaching flexibility. The new edition provides invitations - not requirements - to use technology, as well as new conceptual problems, and new projects that focus on writing and working in teams.

Internet of Things: Principles and Paradigms captures the state-of-the-art research in Internet of Things, its applications, architectures, and technologies. The book identifies potential future directions and technologies that facilitate insight into numerous scientific, business, and consumer applications. The Internet of Things (IoT) paradigm promises to make any electronic devices part of the Internet environment. This new paradigm opens the doors to new innovations and interactions between people and things that will enhance the quality of life and utilization of scarce resources. To help realize the full potential of IoT, the book addresses its numerous challenges and develops the conceptual and technological solutions for tackling them. These challenges include the development of scalable architecture, moving from closed systems to open systems, designing interaction protocols, autonomic management, and the privacy and ethical issues around data sensing, storage, and processing. Addresses the main concepts and features of the IoT paradigm Describes different architectures for managing IoT platforms Provides insight on trust, security, and privacy in IoT environments Describes data management techniques applied to the IoT environment Examines the key enablers and solutions to enable practical IoT systems Looks at the key developments that support next generation IoT platforms Includes input from expert contributors from both academia and industry on building and deploying IoT platforms and applications

In a conceptually current, quick-reference, Question & Answer format, the second edition of Handbook of Practical Immunohistochemistry: Frequently Asked Questions continues to provide a comprehensive and yet concise state-of-the-art overview of the major issues specific to the field of immunohistochemistry. With links to the authors Immunohistochemical Laboratory website, this volume creates a current and up-to-date information system on immunohistochemistry. This includes access to tissue microarrays (TMA) of over 10,000 tumors and normal tissue to validate common diagnostic panels and provide the best reproducible data for diagnostic purposes. Fully revised and updated from the first edition, the new features of the second edition include over 200 additional questions or revised questions with an IHC panel to answer each question; over 250 new color photos and illustrations; over 20 new useful biomarkers; hundreds of new references; several new chapters to cover phosphoproteins, rabbit monoclonal antibodies, multiplex IHC stains, overview of predictive biomarkers, and integration of IHC into molecular pathology; many new coauthors who are

international experts in a related field; many updated IHC panels using Geisinger IHC data collected from over 10,000 tumors and normal tissues; and updated appendices containing detailed antibody information for both manual and automated staining procedures. Comprehensive yet practical and concise, the Handbook of Practical Immunohistochemistry: Frequently Asked Questions, Second Edition will be of great value for surgical pathologists, pathology residents and fellows, cytopathologists, and cytotechnologists.

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

The text has been divided in two volumes: Volume I (Ch. 1-13) & Volume II (Ch. 14-22). In addition to the review material and some basic topics as discussed in the opening chapter, the main text in Volume I covers topics on infinite series, differential and integral calculus, matrices, vector calculus, ordinary differential equations, special functions and Laplace transforms. Volume II covers topics on complex analysis, Fourier analysis, partial differential equations and statistics.

The present book has numerous distinguishing features over the already existing books on the same topic. The chapters have been planned to create interest among the readers to study and apply the mathematical tools. The subject has been presented in a very lucid and precise manner with a wide variety of examples and exercises, which would eventually help the reader for hassle free study.

This book is a printed edition of the Special Issue "Vitamin C in Health and Disease" that was published in *Nutrients*

This book constitutes the refereed proceedings of the International Conference on Advances in Computing Communications and Control, ICAC3 2011, held in Mumbai, India, in January 2011. The 84 revised full papers presented were carefully reviewed and selected from 309 submissions. The papers address issues such as AI, artificial neural networks, computer graphics, data warehousing and mining, distributed computing, geo information and statistical computing, learning algorithms, system security, virtual reality, cloud computing, service oriented architecture, semantic web, coding techniques, modeling and simulation of communication systems, network architecture, network protocols, optical fiber/microwave communication, satellite communication, speech/image processing, wired and wireless communication, cooperative control, and nonlinear control, process control and instrumentation, industrial automation, controls in aerospace, robotics, and power systems.

The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic research and insight from the leaders in the market. This book provides everything you need to know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts,

readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking, Working, Modelling and Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge The present book is meant for the first-year students of various universities. Engineering educationists feel that first-year students of all disciplines must have an elementary and general idea about various branches of electronics. Spread in sixteen chapters, the book broadly discusses.

This two-volume set (CCIS 1045 and CCIS 1046) constitutes the refereed proceedings of the Third International Conference on Advances in Computing and Data Sciences, ICACDS 2019, held in Ghaziabad, India, in April 2019. The 112 full papers were carefully reviewed and selected from 621 submissions. The papers are centered around topics like advanced computing, data sciences, distributed systems organizing principles, development frameworks and environments, software verification and validation, computational complexity and cryptography, machine learning theory, database theory, probabilistic representations. Primarily intended for the undergraduate students in Mathematics, Physics and Engineering, this text gives in-depth coverage of differential equations and the methods of solving them. The book begins with the basic definitions, the physical and geometric origins of differential equations, and the methods for solving first-order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher-order differential equations and their applications to telecom-munications, civil engineering, cardiology and detec-tion of diabetes, as also the methods of solving simultaneous differential equations and their applica-tions. Besides, the book provides a detailed discussion on Laplace transform and their applications, partial differential equations and their applications to vibration of a stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. This book, which is a happy fusion of theory and application, would also be useful to postgraduate students.

Unit I 1. Real And Complex Matrices And Linear System Of Equations 2. Eigen Values And Eigen Vectors 3. Quadratic Forms Unit Ii 4. Solution Of Algebraic And Transcendental Equations 5. Interpolation 6. Curve Fitting Unit Iii 7. Numerical Differentiation And Integration 8. Numerical Solution Of Ordinary Differential Equations Unit Iv 9. Fourier Series 10. Fourier Transforms Unit V 11. Partial Differential Equations

This book constitutes the refereeds proceedings of the International Conference on High Performance Architecture and Grid Computing, HPAGC 2011, held in Chandigarh, India, in July 2011. The 87 revised full papers presented were carefully reviewed and selected from 240

submissions. The papers are organized in topical sections on grid and cloud computing; high performance architecture; information management and network security.

This book contains a selection of refereed and revised papers of the Intelligent Distributed Computing Track originally presented at the third International Symposium on Intelligent Informatics (ISI-2014), September 24-27, 2014, Delhi, India. The papers selected for this Track cover several Distributed Computing and related topics including Peer-to-Peer Networks, Cloud Computing, Mobile Clouds, Wireless Sensor Networks, and their applications.

This volume comprises the select proceedings of the annual convention of the Computer Society of India. Divided into 10 topical volumes, the proceedings present papers on state-of-the-art research, surveys, and succinct reviews. The volumes cover diverse topics ranging from communications networks to big data analytics, and from system architecture to cyber security. This volume focuses on Big Data Analytics. The contents of this book will be useful to researchers and students alike.

Alkaloids, represent a group of interesting and complex chemical compounds, produced by the secondary metabolism of living organisms in different biotopes. They are relatively common chemicals in all kingdoms of living organisms in all environments. Two hundred years of scientific research has still not fully explained the connections between alkaloids and life.

Alkaloids-Chemistry, Biological Significance, Applications and Ecological Role provides knowledge on structural typology, biosynthesis and metabolism in relation to recent research work on alkaloids. Considering an organic chemistry approach to alkaloids using biological and ecological explanation. Within the book several questions that persist in this field of research are approached as are some unresearched areas. The book provides beneficial text for an academic and professional audience and serves as a source of knowledge for anyone who is interested in the fascinating subject of alkaloids. Each chapter features an abstract.

Appendices are included, as are a listing of alkaloids, plants containing alkaloids and some basic protocols of alkaloid analysis. * Presents the ecological role of alkaloids in nature and ecosystems * Interdisciplinary and reader friendly approach * Up-to-date knowledge

Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label.

Advanced Engineering Mathematics with MATLAB, Fourth Edition builds upon three successful previous editions. It is written for today's STEM (science, technology, engineering, and mathematics) student. Three assumptions underlie its structure: (1) All students need a firm grasp of the traditional disciplines of ordinary and partial differential equations, vector calculus and linear algebra. (2) The modern student must have a strong foundation in transform methods because they provide the mathematical basis for electrical and communication studies. (3) The biological revolution requires an understanding of stochastic (random) processes. The chapter on Complex Variables, positioned as the first chapter in previous editions, is now moved to Chapter 10. The author employs MATLAB to reinforce concepts and solve problems that require heavy computation. Along with several updates and changes from the third edition, the text continues to evolve to meet the needs of today's instructors and students. Features: Complex Variables, formerly Chapter 1, is now Chapter 10. A new Chapter 18: Itô's Stochastic Calculus. Implements numerical methods using MATLAB, updated and expanded Takes into account the increasing use of probabilistic methods in engineering and the physical sciences Includes many updated examples, exercises, and projects drawn from the scientific and engineering literature Draws on the author's many years of experience as a practitioner and instructor Gives answers to odd-numbered problems in the back of the book Offers downloadable MATLAB code at www.crcpress.com

The environment of our planet is degrading at an alarming rate because of non-sustainable urbanization, industrialization and agriculture. Unsustainable trends in relation to climate change and energy use, threats to public health, poverty and social exclusion, demographic

pressure and ageing, management of natural resources, biodiversity loss, land use and transport still persist and new challenges are arising. Since these negative trends bring about a sense of urgency, short term action is required, whilst maintaining a longer term perspective. The main challenge is to gradually change our current unsustainable consumption and production patterns and the nonintegrated approach to policy-making. This book covers the broad area including potential of rhizospheric microorganisms in the sustainable plant development in anthropogenic polluted soils, bioremediation of pesticides from soil and waste water, toxic metals from soil, biological treatment of pulp and paper industry wastewater, sustainable solutions for agro processing waste management, solid waste management on climate change and human health, environmental impact of dyes and its remediation. Various methods for genotoxicity testing of environmental pollutants are also discussed and chapters on molecular detection of resistance and transfer genes in the environmental samples, biofilm formation by the environmental bacteria, biochemical attributes to assess soil ecosystem sustainability, application of rhizobacteria in biotechnology, role of peroxidases as a tool for the decolorization and removal of dyes and potential of biopesticides in sustainable agriculture. It offers a unique treatment of the subject, linking various protection strategies for sustainable development, describing the inter-relationships between the laboratory and field ecotoxicologist, the biotechnology consultant, environmental engineers and different international environmental regulatory and protection agencies.

Describes basic principles and recent developments in approximate query processing. It focuses on four key synopses: random samples, histograms, wavelets, and sketches. It considers issues such as accuracy, space and time efficiency, optimality, practicality, range of applicability, error bounds on query answers, and incremental maintenance. This book provides an up-to-date overview of the Mössbauer effect in physics, chemistry, electrochemistry, catalysis, biology, medicine, geology, mineralogy, archaeology and materials science. Coverage details the most recent developments of the technique especially in the fields of nanoparticles, thin films, surfaces, interfaces, magnetism, experimentation, theory, medical and industrial applications and Mars exploration.

This Open Access book celebrates Professor Peter Marwedel's outstanding achievements in compilers, embedded systems, and cyber-physical systems. The contributions in the book summarize the content of invited lectures given at the workshop "Embedded Systems" held at the Technical University Dortmund in early July 2019 in honor of Professor Marwedel's seventieth birthday. Provides a comprehensive view from leading researchers with respect to the past, present, and future of the design of embedded and cyber-physical systems; Discusses challenges and (potential) solutions from theoreticians and practitioners on modeling, design, analysis, and optimization for embedded and cyber-physical systems; Includes coverage of model verification, communication, software runtime systems, operating systems and real-time computing.

This book explores potentially disruptive and transformative healthcare-specific use cases made possible by the latest developments in Internet of Things (IoT) technology and Cyber-Physical Systems (CPS). Healthcare data can be subjected to a range of different investigations in order to extract highly useful and usable intelligence for the automation of traditionally manual tasks. In addition, next-generation healthcare applications can be enhanced by integrating the latest knowledge discovery and dissemination tools. These sophisticated, smart healthcare applications are possible thanks to a growing ecosystem of healthcare sensors and actuators, new ad hoc and

application-specific sensor and actuator networks, and advances in data capture, processing, storage, and mining. Such applications also take advantage of state-of-the-art machine and deep learning algorithms, major strides in artificial and ambient intelligence, and rapid improvements in the stability and maturity of mobile, social, and edge computing models.

Herbs and spices are among the most versatile ingredients in food processing, and alongside their sustained popularity as flavourants and colourants they are increasingly being used for their natural preservative and potential health-promoting properties. An authoritative new edition in two volumes, Handbook of herbs and spices provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices. Volume 2 begins with a discussion of such issues as the medicinal uses of herbs and spices and their sustainable production. Herbs and spices as natural antimicrobials in foods and the effect of their natural antioxidants on the shelf life of food are explored, before the book goes on to look in depth at individual herbs and spices, ranging from ajowan to tamarind. Each chapter provides detailed coverage of a single herb or spice, and begins by considering origins, chemical composition and classification. The cultivation, production and processing of the specific herb or spice is then discussed in detail, followed by analysis of the main uses, functional properties and toxicity. With its distinguished editor and international team of expert contributors, the two volumes of the new edition of Handbook of herbs and spices are an essential reference for manufacturers using herbs and spices in their products. They also provide valuable information for nutritionists and academic researchers. Provides a comprehensive guide to the properties, production and application of a wide variety of commercially-significant herbs and spices Begins with a discussion of such issues as the medicinal uses of herbs and spices and their sustainable production Explores herbs and spices as natural antimicrobials in foods and the effect of their natural antioxidants on the shelf life of food

This book includes selected papers from the International Conference on Data Science and Intelligent Applications (ICDSIA 2020), hosted by Gandhinagar Institute of Technology (GIT), Gujarat, India, on January 24–25, 2020. The proceedings present original and high-quality contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications. The conference provides a forum for researchers from academia and industry to present and share their ideas, views and results, while also helping them approach the challenges of technological advancements from different viewpoints. The contributions cover a broad range of topics, including: collective intelligence, intelligent systems, IoT, fuzzy systems, Bayesian networks, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, speech processing, machine learning and deep learning, and intelligent applications and systems. Helping strengthen the links between academia and industry, the book offers a valuable resource for instructors, students, industry practitioners, engineers, managers, researchers, and scientists alike.

Description: Best way to learn any programming language is to create good programs in it. C is not exception to this rule. Once you decide to write any program you would find that there are always at least two ways to write it. So you need to find out whether you have chosen the best way to implement your program. That's where you would find

this book useful. It contains solutions to all the exercises present in Let Us C 15th Edition. If you learn the language elements from Let Us C, write programs for the problems given in the exercises and then cross check your answers with the solutions given in this book you would be well on your way to become a skilled C programmer. I am sure you would appreciate this learning path like the millions of students and professionals have in the past decade.

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This book presents WHO guidelines for the protection of public health from risks due to a number of chemicals commonly present in indoor air. The substances considered in this review, i.e. benzene, carbon monoxide, formaldehyde, naphthalene, nitrogen dioxide, polycyclic aromatic hydrocarbons (especially benzo[a]pyrene), radon, trichloroethylene and tetrachloroethylene, have indoor sources, are known in respect of their hazardousness to health and are often found indoors in concentrations of health concern. The guidelines are targeted at public health professionals involved in preventing health risks of environmental exposures, as well as specialists and authorities involved in the design and use of buildings, indoor materials and products. They provide a scientific basis for legally enforceable standards.

Air pollution is recognized as one of the leading contributors to the global environmental burden of disease, even in countries with relatively low concentrations of air pollution. Air Pollution: Health and Environmental Impacts examines the effect of this complex problem on human health and the environment in different settings around the world.

Engineering Mathematics (Volume I) has been primarily written For The first and second semester students of B.E./B.Tech level of various engineering colleges. The book contains thirteen chapters covering topics on differential calculus, matrices, multiple integrals, vector calculus, ordinary differential equations, series solutions and special functions, Laplace transforms, Fourier series, Partial differential equations and applications. The self-contained text is applications oriented and contains a wide variety of examples, objective type questions and exercises.

This new edition of the unrivalled textbook introduces the fundamental concepts of quantum mechanics such as waves, particles and probability before explaining the postulates of quantum mechanics in detail. In the proven didactic manner, the textbook then covers the classical scope of introductory quantum mechanics, namely simple two-level systems, the one-dimensional harmonic oscillator, the

quantized angular momentum and particles in a central potential. The entire book has been revised to take into account new developments in quantum mechanics curricula. The textbook retains its typical style also in the new edition: it explains the fundamental concepts in chapters which are elaborated in accompanying complements that provide more detailed discussions, examples and applications.

* The quantum mechanics classic in a new edition: written by 1997 Nobel laureate Claude Cohen-Tannoudji and his colleagues Bernard Diu and Franck Laloë * As easily comprehensible as possible: all steps of the physical background and its mathematical representation are spelled out explicitly * Comprehensive: in addition to the fundamentals themselves, the book contains more than 350 worked examples plus exercises Claude Cohen-Tannoudji was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris where he also studied and received his PhD in 1962. In 1973 he became Professor of atomic and molecular physics at the Collège des France. His main research interests were optical pumping, quantum optics and atom-photon interactions. In 1997, Claude Cohen-Tannoudji, together with Steven Chu and William D. Phillips, was awarded the Nobel Prize in Physics for his research on laser cooling and trapping of neutral atoms. Bernard Diu was Professor at the Denis Diderot University (Paris VII). He was engaged in research at the Laboratory of Theoretical Physics and High Energy where his focus was on strong interactions physics and statistical mechanics. Franck Laloë was a researcher at the Kastler-Brossel laboratory of the Ecole Normale Supérieure in Paris. His first assignment was with the University of Paris VI before he was appointed to the CNRS, the French National Research Center. His research was focused on optical pumping, statistical mechanics of quantum gases, musical acoustics and the foundations of quantum mechanics.

The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29–30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial professionals from around the globe presented their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

This book constitutes the refereed proceedings of the Second EAI International Conference on Smart Grid and Internet of Things, SGIoT 2018, held in Niagara Falls, Canada, Ontario, in July 2018. The 14 papers presented were carefully reviewed and selected from 25 submissions and present research results on how to achieve more efficient use of resources based largely on IoT-based machine-to-machine interactions in the smart grid communication networks. The smart grid also encompasses IoT technologies, which monitor transmission lines, manage

substations, integrate renewable energy generation (e.g., solar or wind), and utilize hybrid vehicle batteries. Through these technologies, the authorities can smartly identify outage problems, and intelligently schedule the power generation and delivery to the customers

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