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Handbook of Research on Big Data Storage and Visualization Techniques *IGI Global* The digital age has presented an exponential growth in the amount of data available to individuals looking to draw conclusions based on given or collected information across industries. Challenges associated with the analysis, security, sharing, storage, and visualization of large and complex data sets continue to plague data scientists and analysts alike as traditional data processing applications struggle to adequately manage big data. The Handbook of Research on Big Data Storage and Visualization Techniques is a critical scholarly resource that explores big data analytics and technologies and their role in developing a broad understanding of issues pertaining to the use of big data in multidisciplinary fields. Featuring coverage on a broad range of topics, such as architecture patterns, programing systems, and computational energy, this publication is geared towards professionals, researchers, and students seeking current research and application topics on the subject. **Spent Nuclear Fuel and Accelerator-Driven Subcritical Systems** *Springer* This book offers a comprehensive overview of the reprocessing of spent nuclear fuels, and discusses the applications of radiation, particularly spallation neutrons and gamma rays. The unspent nuclear fuel of a reactor amounts to roughly 95 per cent of the loaded fuel. It contains both fertile and fissile fuels, minor and higher actinides and radioactive fission products. In 2015, out of approximately 4 million metric tons of spent fuel, only 90,000 metric tons was reprocessed worldwide; the rest was either sent to repositories, kept for cooling down, or put on a waiting list for future reprocessing. With regard to the direct reutilization of spent nuclear fuel, the new technique of 'Energy Amplifiers' has attracted considerable attention among the

nuclear energy community. Presenting extensive information on this technique, the book is divided into eight major sections: (i) spent nuclear fuel and alternative transmutation methods, (ii) general concept of accelerator-driven subcritical systems (ADSS), (iii) spallation neutron sources and the possibility of incineration, (iv) requirements for nuclear data, (v) transmutation of spent nuclear fuel and extension of the fuel cycle, (vi) spallation neutron production facilities, (vii) major experimental facilities for ADSS, and (viii) software tools for the design and modelling of ADSS. The book is ideally suited as a textbook for graduate students as well as a reference guide for researchers and practitioners.

Project Management A Systems Approach to Planning, Scheduling, and Controlling
John Wiley & Sons The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.) Time Continuity in Discrete Time Models New Approaches for Production Planning in Process Industries *Springer Science & Business Media* Production planning problems containing special characteristics from process industries are addressed in this book. The main subject is the development of mathematical programming models that allow to model production plans which are not disrupted by discretization of time. However, discrete time models are used as a basis and are subsequently enhanced to include aspects of time continuity. Their integration is achieved by different building blocks which may be combined freely according to the specific planning situation at hand. The primary area of application of these kinds of models are process industries. A Textbook of Machine Drawing *S. Chand Publishing* This book is for B.Sc Engg., B.E., Dip. In Mech. Engg., Production Engg., Automobile Engg., Textile Engg., etc., I.T.I.(Draftsman Course in Mech. Engg.), A.T.I., 10+2 System, and other Engineering Examinations. According to Bureau of Indian Standards (B.I.S.) SP: 46-1988 & IS:696-1972 The Maudsley Prescribing Guidelines in Psychiatry *John Wiley & Sons* The revised 13th edition of the

essential reference for the prescribing of drugs for patients with mental health disorders The revised and updated 13th edition of The Maudsley Prescribing Guidelines in Psychiatry provides up-to-date information, expert guidance on prescribing practice in mental health, including drug choice, treatment of adverse effects and how to augment or switch medications. The text covers a wide range of topics including pharmacological interventions for schizophrenia, bipolar disorder, depression and anxiety, and many other less common conditions. There is advice on prescribing in children and adolescents, in substance misuse and in special patient groups. This world-renowned guide has been written in concise terms by an expert team of psychiatrists and specialist pharmacists. The Guidelines help with complex prescribing problems and include information on prescribing psychotropic medications outside their licensed indications as well as potential interactions with other medications and substances such as alcohol, tobacco and caffeine. In addition, each of the book's 165 sections features a full reference list so that evidence on which guidance is based can be readily accessed. This important text: Is the world's leading clinical resource for evidence-based prescribing in day-to-day clinical practice and for formulating prescribing policy Includes referenced information on topics such as transferring from one medication to another, prescribing psychotropic medications during pregnancy or breastfeeding, and treating patients with comorbid physical conditions, including impaired renal or hepatic function. Presents guidance on complex clinical problems that may not be encountered routinely Written for psychiatrists, neuropharmacologists, pharmacists and clinical psychologists as well as nurses and medical trainees, The Maudsley Prescribing Guidelines in Psychiatry are the established reference source for ensuring the safe and effective use of medications for patients presenting with mental health problems. Cosmological Inflation, Dark Matter and Dark Energy *MDPI* Various cosmological observations support not only cosmological inflation in the early universe, which is also known as exponential cosmic expansion, but also that the expansion of the late-time universe is accelerating. To explain this phenomenon, the existence of dark energy is proposed. In addition, according to the rotation curve of galaxies, the existence of dark matter, which does not shine, is also suggested. If primordial gravitational waves are detected in the future, the mechanism for realizing inflation can be revealed. Moreover, there exist two main candidates for dark matter. The first is a new particle, the existence of which is predicted in particle physics. The second is an astrophysical object which is not found by electromagnetic waves. Furthermore, there are two representative approaches to account for the accelerated expansion of the current universe. One is to assume the unknown dark energy in general relativity. The other is to extend the gravity theory to large scales. Investigation of the origins of inflation, dark matter, and dark energy is one of the most fundamental problems in modern physics and cosmology. The purpose of this book is to explore the physics and cosmology of

inflation, dark matter, and dark energy. **Cosmeceuticals and Active Cosmetics** *CRC Press* **Cosmeceuticals and Active Cosmetics** discusses the science of nearly two dozen cosmeceuticals used today. This third edition provides ample evidence on specific cosmeceutical substances, their classes of use, skin conditions for which they are used, and points of interest arising from other considerations, such as toxicology and manufacturing. The book discusses both cosmetic and therapeutic uses of cosmeceuticals for various conditions including rosacea, dry skin, alopecia, eczema, seborrheic dermatitis, purpura, and vitiligo. Active ingredients in the following products are discussed: caffeine, curcumin, green tea, *Rhodiola rosea*, milk thistle, and more. Also covered are topical peptides and proteins, amino acids and derivatives, antioxidants, vitamins E and C, niacinamide, botanical extracts, and biomarine actives. Providing ample scientific references, this book is an excellent guide to understanding the science behind the use of cosmeceuticals to treat a variety of dermatological conditions. **Advanced Algebra** *Springer Science & Business Media* **Basic Algebra and Advanced Algebra** systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. **Advanced Algebra** includes chapters on modern algebra which treat various topics in commutative and noncommutative algebra and provide introductions to the theory of associative algebras, homological algebras, algebraic number theory, and algebraic geometry. Many examples and hundreds of problems are included, along with hints or complete solutions for most of the problems. Together the two books give the reader a global view of algebra and its role in mathematics as a whole. **A Book of Abstract Algebra Second Edition** *Courier Corporation* **Accessible but rigorous, this outstanding text** encompasses all of the topics covered by a typical course in elementary abstract algebra. Its easy-to-read treatment offers an intuitive approach, featuring informal discussions followed by thematically arranged exercises. This second edition features additional exercises to improve student familiarity with applications. 1990 edition. **Plant Growth Promoting Actinobacteria A New Avenue for Enhancing the Productivity and Soil Fertility of Grain Legumes** *Springer* **Global yields of legumes have been** relatively stagnant for the last five decades, despite the adoption of conventional and molecular breeding approaches. The use of plant growth-promoting (PGP) bacteria for improving agricultural production, soil and plant health has become one of the most attractive strategies for developing sustainable agriculture. Actinomycetes are bacteria that play an important role in PGP and plant protection, produce secondary metabolites of commercial interest, and their use is well documented in wheat, rice, beans, chickpeas and peas. In order to promote legumes, the general assembly of the UN recently declared 2016 the “International Year of Pulses.” In view of this development, this book illustrates how PGP actinomycetes can improve grain yield and soil fertility, improve control of insect pests and phytopathogens, and enhance host-plant resistance. It

also addresses special topics of current interest, e.g. the role of PGP actinomycetes in the biofortification of legume seeds and bioremediation of heavy metals. **The Accidental Prime Minister The Making and Unmaking of Manmohan Singh** *Penguin UK* When **The Accidental Prime Minister** was published in 2014, it created a storm and became the publishing sensation of the year. The Prime Minister's Office called the book a work of 'fiction', the press hailed it as a revelatory account of Prime Minister Manmohan Singh's first term in UPA. Written by Singh's media adviser and trusted aide, the book describes Singh's often troubled relations with his ministers, his cautious equation with Sonia Gandhi and how he handled the big crises from managing the Left to pushing through the nuclear deal. Insightful, acute and packed with political anecdotes, **The Accidental Prime Minister** is one of the great insider accounts of Indian political life. **Solid State Chemistry Selected Papers of C.N.R. Rao** *World Scientific* **Solid State Chemistry** today is a frontier area of mainstream chemistry, and plays a vital role in the development of materials. The present work, consisting of a selection of Prof. C N R Rao's papers, covers most of the important aspects of solid state chemistry and provides the flavor of the subject, showing how the subject has evolved over the years. The book is up-to-date, and will be useful to students, teachers, beginning researchers and practitioners in solid state chemistry as well as in the broader area of materials science. **Understanding Society and Natural Resources Forging New Strands of Integration Across the Social Sciences** *Springer* In this edited open access book leading scholars from different disciplinary backgrounds wrestle with social science integration opportunities and challenges. This book explores the growing concern of how best to achieve effective integration of the social science disciplines as a means for furthering natural resource social science and environmental problem solving. The chapters provide an overview of the history, vision, advances, examples and methods that could lead to integration. The quest for integration among the social sciences is not new. Some argue that the social sciences have lagged in their advancements and contributions to society due to their inability to address integration related issues. Integration merits debate for a number of reasons. First, natural resource issues are complex and are affected by multiple proximate driving social factors. Single disciplinary studies focused at one level are unlikely to provide explanations that represent this complexity and are limited in their ability to inform policy recommendations. Complex problems are best explored across disciplines that examine social-ecological phenomenon from different scales. Second, multi-disciplinary initiatives such as those with physical and biological scientists are necessary to understand the scope of the social sciences. Too frequently there is a belief that one social scientist on a multi-disciplinary team provides adequate social science representation. Third, more complete models of human behavior will be achieved through a synthesis of diverse social science perspectives. **Physics in Food Manufacturing Case Studies in Fundamental and Applied**

Research This book is the first authoritative text on the role that physicists play in solving the inherently multidisciplinary science and technology challenges in food manufacturing. Topics range from designing safe, nutritious and great-tasting foods to the process technology and manufacturing know-how needed to deliver compelling product innovation. The book provides a foundational resource for the transformation of engineering and materials characterisation in the food and pharmaceuticals industries. It is an essential reference for interdisciplinary physical scientists, food/nutrition scientists and engineers working in academic research, government labs and industry, and it is also a valuable resource for R&D staff and product engineers working for suppliers of specialist instrumentation and equipment to the food processing industry. The book is augmented by complementary presentations from the Fourth IOP Physics in Food Manufacturing Conference 2020, held in Leeds, UK.

Key Features The first authoritative account of the diverse role that physics and physicists play in the food processing industry. A go-to reference source for anyone wishing to become involved in food processing - science, technology, engineering. Expert accounts by leading academics and industrial scientists.

Educational Research and Innovation *Innovating Education and Educating for Innovation The Power of Digital Technologies and Skills* *OECD Publishing* OECD's Innovation Strategy calls upon all sectors in the economy and society to innovate in order to foster productivity, growth and well-being. Education systems are critically important for innovation through the development of skills that nurture new ideas and technologies.

Transforming REDD+ Lessons and new directions *CIFOR* Constructive critique. This book provides a critical, evidence-based analysis of REDD+ implementation so far, without losing sight of the urgent need to reduce forest-based emissions to prevent catastrophic climate change. REDD+ as envisioned

INDIA'S NEW CAPITALISTS *Caste, Business, and Industry in a Modern Nation* *Hachette UK* It's no secret that certain social groups have predominated India's business and trading history, with business traditionally being the preserve of particular 'Bania' communities. However, the past four or so decades have seen a widening of the social base of Indian capital, such that the social profile of Indian business has expanded beyond recognition, and entrepreneurship and commerce in India are no longer the exclusive bastion of the old mercantile castes. In this meticulously researched book - acclaimed for being the first social history to document and understand India's new entrepreneurial groups - Harish Damodaran looks to answer who the new 'wealth creators' are, as he traces the transitional entry of India's middle and lower peasant castes into the business world. Combining analytical rigour with journalistic flair, *India's New Capitalists* is an essential read for anyone seeking to understand the culture and evolution of business in contemporary South Asia.

Dive Into Deep Learning *Tools for Engagement* *Corwin Press* The leading experts in system change and learning, with their school-based

partners around the world, have created this essential companion to their runaway best-seller, *Deep Learning: Engage the World Change the World*. This hands-on guide provides a roadmap for building capacity in teachers, schools, districts, and systems to design deep learning, measure progress, and assess conditions needed to activate and sustain innovation. *Dive Into Deep Learning: Tools for Engagement* is rich with resources educators need to construct and drive meaningful deep learning experiences in order to develop the kind of mindset and know-how that is crucial to becoming a problem-solving change agent in our global society. Designed in full color, this easy-to-use guide is loaded with tools, tips, protocols, and real-world examples. It includes:

- A framework for deep learning that provides a pathway to develop the six global competencies needed to flourish in a complex world — character, citizenship, collaboration, communication, creativity, and critical thinking.
- Learning progressions to help educators analyze student work and measure progress.
- Learning design rubrics, templates and examples for incorporating the four elements of learning design: learning partnerships, pedagogical practices, learning environments, and leveraging digital.
- Conditions rubrics, teacher self-assessment tools, and planning guides to help educators build, mobilize, and sustain deep learning in schools and districts. Learn about, improve, and expand your world of learning. Put the joy back into learning for students and adults alike. Dive into deep learning to create learning experiences that give purpose, unleash student potential, and transform not only learning, but life itself.

World Report on Violence and Health This report is part of WHO's response to the 49th World Health Assembly held in 1996 which adopted a resolution declaring violence a major and growing public health problem across the world. It is aimed largely at researchers and practitioners including health care workers, social workers, educators and law enforcement officials.

Basic Mechanical Engineering Pearson Education India *Basic Mechanical Engineering* covers a wide range of topics and engineering concepts that are required to be learnt as in any undergraduate engineering course. Divided into three parts, this book lays emphasis on explaining the logic and physics of critical problems to develop analytical skills in students.

Critical Issues in South African Education Illumination from international comparative perspectives from the BRICS countries *AOSIS* The main thesis of this book is that, given that South African education faces major challenges, the BRICS (Brazil, Russia, India, China and South Africa) constellation of states offers — thus far overlooked — a valuable tertium comparationis, a source of international comparative perspectives, to inform the domestic scholarly discourse on education. This book first investigates the national contexts and development of education in the BRICS countries, arguing that this grouping represents a valuable but yet overlooked field for illuminating South African education issues with international perspectives. The book consists of chapters arguing for and illustrating this thesis from a variety of angles. Common to all chapters is that authors used the comparative

method in education, that is comparing the national education system, in their education societal context interrelationships, of the BRICS countries. The chapters focus on a number of critical issues in South African education, including the language of learning and teaching issue, the alignment of the world of education with the world of work, early childhood education, and the development of world-class universities. Regarding the last, for example, China has been the terrain of the most intensive national projects of establishing world-class universities, with Project 985, Project 211, and the “Double First Class University” project. The chapters demonstrate what South Africa, in approaching her education issues, can learn from the experience of the BRICS countries.

Modern Medical Toxicology *JAYPEE BROTHERS PUBLISHERS* **Global Strategy for Health for All by the Year 2000** *Diffusion and Reactions in Fractals and Disordered Systems* *Cambridge University Press* This book describes diffusion and transport in disordered media such as fractals and random resistor networks.

Mycotoxins in Food and Beverage Innovations and Advances, Part II *CRC Press* Mycotoxins are secondary metabolites produced by fungi in a wide range of foods (cereals, peanut, tree nuts, dried fruits, coffee, cocoa, grapes, spices...) both in the field and after harvest, particularly during storage. They can also be found in processed foods of plant origin, or by transfer, in food products of animal (milk, eggs, meat and offal). Mycotoxins are of major concern since they can cause acute or chronic intoxications in both humans and animals which are sometimes fatal. Many countries, particularly in Europe, have set maximum acceptable levels for mycotoxins in food and feed. The book reviews the latest literature and innovations on important aspects of mycotoxins, e.g. mycotoxin producing fungi and the related ecosystems, mycotoxin occurrence, toxicity, analysis and management. Quantitative estimation of impacts of climate change on mycotoxin occurrence have been made recently, using predictive modelling. There is also a growing interest in studying the occurrence and toxicity of multiple mycotoxins in food and feed, including emerging or modified forms of mycotoxins. Innovative tools have also developed to detect and quantify toxinogenic fungi and their toxins. In order to reduce the use of chemicals that are harmful to the environment and health of consumers, alternative methods of prevention and decontamination of mycotoxins were tested in pre- and post-harvest, using microorganisms, natural substances or radiation treatments.

A Term of Commutative Algebra There is no shortage of books on Commutative Algebra, but the present book is different. Most books are monographs, with extensive coverage. There is one notable exception: Atiyah and Macdonald’s 1969 classic. It is a clear, concise, and efficient textbook, aimed at beginners, with a good selection of topics. So it has remained popular. However, its age and flaws do show. So there is need for an updated and improved version, which the present book aims to be.

Biosafety in Microbiological and Biomedical Laboratories *Unflooding Asia the Green Cities Way* *IWA Publishing* A continuing increase in disasters triggered by floods occurs

almost daily even though our technological capabilities have grown rapidly and global economic growth per capita has doubled. This paradoxical situation proves that our earlier ways of thinking are inadequate and that we must shift our way of thinking and working. It has become obvious that most flood-related disasters, although commonly referred to as natural disasters, are not the result of nature-related processes alone. Some of the early efforts in dealing with floods and flood-related disasters were only concerned with the construction of engineering structures (e.g., levees, floodwalls, dams, embankments, storage basins, diversions, etc.) without significant consideration of aspects which are nowadays regarded as equally important, if not more important. There is a great deal of natural, social and technological interactions that shape the vulnerability to floods. Realizing that flood risk can hardly ever be completely eliminated, the traditional 'flood defence' culture has been replaced with the culture of learning how to live under flood risk and how to better respond to it. This renders purely engineering solutions inadequate. Can the threats of more flood-related disasters provide an impetus to shift our mind-set towards an approach that favours not only sound technological innovations but one that also addresses the social, cultural, and wider ecological aspects of dealing with floods? In this illustrated book, the Asian Development Bank (ADB) seeks to introduce a holistic thinking in dealing with urban floods by adopting the green cities development approach. Green cities development is a holistic approach which promotes multipurpose (or multifunctional) solutions that are not only technologically and economically efficient, but which are also ecologically sustainable and socially just. Authors: Zoran Vojinovic, UNESCO-IHE Institute for Water Education, Delft, The Netherlands and Jingmin Huang, Senior Urban Development Specialist, Regional and Sustainable Development Department, Asian Development Bank

Natural Liberty Rediscovering Self-induced Abortion Methods *Natural Liberty* At head of title: Sage-Femme Collective. Smart Intelligent Computing and Applications Proceedings of the Third International Conference on Smart Computing and Informatics, Volume 2 *Springer Nature*

This book presents high-quality papers from the Third International Conference on Smart Computing and Informatics (SCI 2018–19), organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar, from 21 to 22 December 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics, focusing on innovation paradigms in system knowledge, intelligence and sustainability that have the potential to provide realistic solutions to various problems in society, the environment and industry. The papers featured provide a valuable contribution to the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and health care.

National Energy Map for India Technology Vision 2030 summary for policy-makers *The Energy and Resources Institute (TERI)* Innovation and Marketing in

the Pharmaceutical Industry Emerging Practices, Research, and Policies *Springer Science & Business Media* The pharmaceutical industry is one of today's most dynamic and complex industries, involving commercialization of cutting-edge scientific research, a huge web of stakeholders (from investors to doctors), multi-stage supply chains, fierce competition in the race to market, and a challenging regulatory environment. The stakes are high, with each new product raising the prospect of spectacular success—or failure. Worldwide revenues are approaching \$1 trillion; in the U.S. alone, marketing for pharmaceutical products is, itself, a multi-billion dollar industry. In this volume, the editors showcase contributions from experts around the world to capture the state of the art in research, analysis, and practice, and covering the full spectrum of topics relating to innovation and marketing, including R&D, promotion, pricing, branding, competitive strategy, and portfolio management. Chapters include such features as: · An extensive literature review, including coverage of research from fields other than marketing · an overview of how practitioners have addressed the topic · introduction of relevant analytical tools, such as statistics and ethnographic studies · suggestions for further research by scholars and students The result is a comprehensive, state-of-the-art resource that will be of interest to researchers, policymakers, and practitioners, alike.

Climate Change and India Analysis of Political Economy and Impact *Psychology and Environmental Change* *Psychology Press* This book stimulates thinking on the topic of detrimental environmental change and how research psychologists can help to address the problem. In addition to reporting environmentally relevant psychological research, the author identifies the most pressing questions from an environmental point of view.

Psychology and Environmental Change: *focuses on ways in which human behavior contributes to the problem; *deals with the assessment and change of attitudes and with studies of change of behavior; *proposes ways in which psychological research can contribute to making technology and its products more environmentally benign; and *introduces topics such as consumption, risk assessment, cost-benefit and tradeoff analyses, competition, negotiation, and policymaking, and how they relate to the objective of protecting the environment.

Automata, Computability and Complexity Theory and Applications *Prentice Hall* The theoretical underpinnings of computing form a standard part of almost every computer science curriculum. But the classic treatment of this material isolates it from the myriad ways in which the theory influences the design of modern hardware and software systems. The goal of this book is to change that. The book is organized into a core set of chapters (that cover the standard material suggested by the title), followed by a set of appendix chapters that highlight application areas including programming language design, compilers, software verification, networks, security, natural language processing, artificial intelligence, game playing, and computational biology. The core material includes discussions of finite state machines, Markov models, hidden Markov models (HMMs), regular

expressions, context-free grammars, pushdown automata, Chomsky and Greibach normal forms, context-free parsing, pumping theorems for regular and context-free languages, closure theorems and decision procedures for regular and context-free languages, Turing machines, nondeterminism, decidability and undecidability, the Church-Turing thesis, reduction proofs, Post Correspondence problem, tiling problems, the undecidability of first-order logic, asymptotic dominance, time and space complexity, the Cook-Levin theorem, NP-completeness, Savitch's Theorem, time and space hierarchy theorems, randomized algorithms and heuristic search. Throughout the discussion of these topics there are pointers into the application chapters. So, for example, the chapter that describes reduction proofs of undecidability has a link to the security chapter, which shows a reduction proof of the undecidability of the safety of a simple protection framework.

Post-Intensive Care Syndrome *Springer Nature* This book, part of the European Society of Intensive Care Medicine textbook series, provides detailed up-to-date information on the physical, cognitive, and psychological impairments that are frequently present following a stay in an intensive care unit and examines in depth the available preventive and therapeutic strategies, including adapted rehabilitation programs. Beyond acquainting readers with the multiple facets of post-intensive care syndrome (PICS), the book aims to promote the effective follow-up of patients, thereby enhancing their ability to work and their functional autonomy, and to identify risk factors for the development of PICS as a stimulus to beneficial organizational changes in intensive care departments. The background to the book is the realization by healthcare providers that the quality of life of patients who have required a stay in an intensive care unit can be severely impaired or even become unacceptable. All too often, the diverse sequelae are overlooked by specialists of other disciplines. Moreover, families and caregivers are also at high risk of post-traumatic stress disorder and depression. The European Society of Intensive Care Medicine has developed the Lessons from the ICU series with the vision of providing focused and state-of-the-art overviews of central topics in Intensive Care and optimal resources for clinicians working in Intensive Care. This book, written by renowned experts in the field, will facilitate the transmission of key knowledge with significant clinical and financial benefits.

The Lipid Handbook, Second Edition *CRC Press* A great deal of research has been carried out on this important class of compounds in the last ten years. To ensure that scientists are kept up to date, the editors of the First Edition of The Lipid Handbook have completely reviewed and extensively revised their highly successful original work. The Lipid Handbook: Second Edition is an indispensable resource for anyone working with oils, fats, and related substances.

Advanced Numerical Modeling and Data Assimilation Techniques for Tropical Cyclone Predictions *Springer* This book deals primarily with monitoring, prediction and understanding of Tropical Cyclones (TCs). It was envisioned to serve as a teaching and reference resource at universities

and academic institutions for researchers and post-graduate students. It has been designed to provide a broad outlook on recent advances in observations, assimilation and modeling of TCs with detailed and advanced information on genesis, intensification, movement and storm surge prediction. Specifically, it focuses on (i) state-of-the-art observations for advancing TC research, (ii) advances in numerical weather prediction for TCs, (iii) advanced assimilation and vortex initialization techniques, (iv) ocean coupling, (v) current capabilities to predict TCs, and (vi) advanced research in physical and dynamical processes in TCs. The chapters in the book are authored by leading international experts from academic, research and operational environments. The book is also expected to stimulate critical thinking for cyclone forecasters and researchers, managers, policy makers, and graduate and post-graduate students to carry out future research in the field of TCs.

Fraternal Capital Peasant-workers, Self-made Men, and Globalization in Provincial India *Stanford University Press* A richly textured ethnography about knitwear manufacturers in South India that explains how peasant-workers have refined notions of place, gender, and class to create a local industrial form that succeeds in the global economy.