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Emergent Nature Patterns, Growth and Scaling in the Sciences *World Scientific* This book, based on presentations made at the international conference Fractals 2002, is of interest to everyone in the general field of nonlinear dynamics. The abundance of papers from numerous disciplines makes it exciting reading and provides a unifying thread through the topics, such as ray tracing, structure of peptides, modeling fractal surfaces, cancer growth, macaque monkey cortical neurons, occurrence of earthquakes, and patterns of the World Wide Web. Contents: Modeling Cerebellar Dynamics (M G Velarde et al.)Two and Three Dimensional Computer Simulation of Cancer Growth (S Flores Ascencio et al.)Structural and Dynamic Complexity of an Elastin-Related Peptide (A Bonelli et al.)Cumulative Effective Hölder Exponent Based Indicator for Real-Time Fetal Heartbeat Analysis During Labour (Z R Struzik & W J van Wijngaarden)Fractal Features in the Nonstationarity of Physiological Time Series (P Ch Ivanov et al.)Fractal Analysis of Aggregates of Non-Uniformly Sized Particles: An Application to Macaque Monkey Cortical Pyramidal Neurons (B I Henry et al.)Dynamics of Solar Magnetic Field from Synoptic Charts (N G Makarenko & L M Karimova)Side-Branching in the Nonlinear Zone: A Self-Similar Region in Dendritic Crystal Growth (R González-Cinca)and other papers Readership: Researchers in nonlinear science. Keywords: **Disaster Nursing and Emergency Preparedness For Chemical, Biological, and Radiological Terrorism and Other Hazards, for Chemical, Biological, and Radiological**

Terrorism and Other Hazards, Third Edition *Springer Publishing Company* Print+CourseSmart **Disaster Nursing and Emergency Preparedness for Chemical, Biological, and Radiological Terrorism and Other Hazards** *Springer Publishing Company* The new edition of this AJN Book of the Year continues to provide nurses with the most comprehensive, current, and reliable information available so they can develop the skills to efficiently and effectively respond to disasters or public health emergencies. Meticulously researched and reviewed by the worldís foremost experts in preparedness for terrorism, natural disasters, and other unanticipated health emergencies, the text has been revised and updated with significant new content, including 10 new chapters and a digital adjunct teacher's guide with exercises and critical thinking questions. This new edition has strengthened its pediatric focus with updated and expanded chapters on caring for children's physical, mental, and behavioral health following a disaster. New chapters address climate change, global complex human emergencies, caring for patients with HIV/AIDS following a disaster, information technology and disaster response, and hospital and emergency department preparedness. The text provides a vast amount of evidence-based information on disaster planning and response for natural and environmental disasters and those caused by chemical, biological, and radiological elements, as well as disaster recovery. It also addresses leadership, management, and policy issues in disaster nursing and deepens our understanding of the importance of protecting mental health throughout the disaster life cycle. Each chapter is clearly formatted and includes Key Messages and Learning Objectives. Appendices present diagnosis and treatment regimens, creating personal disaster plans, a damage assessment guide, a glossary of terms, and more. Consistent with the Federal Disaster Response Framework, the book promotes competency-based expert nursing care during disasters and positive health outcomes for small and large populations. Key Features: Provides 10 new chapters and new content throughout the text Includes digital teacherís guide with exercises and critical thinking questions Consistent with current U.S. federal guidelines for disaster response Disseminates state-of-the-science, evidence-based information New Chapters: Management of the Pregnant Woman and Newborn During Disasters Management of Patients With HIV/AIDS During Disasters Disaster Nursing in Schools and Other Child Congregate Care Settings Global Complex Human Emergencies Climate Change and the Role of the Nurse in Policy and Practice Human Services Needs Following Disaster Events and Disaster Case Management Hospital and Emergency Department Preparedness National Nurse Preparedness: Achieving Competency-Based Expert Practice Medical Countermeasures Dispensing **The Digital Signal Processing Handbook** *CRC Press* The field of digital signal processing (DSP) has spurred developments from basic theory of discrete-time signals and processing tools to diverse applications in telecommunications, speech and acoustics, radar, and video. This volume provides an accessible reference, offering theoretical and practical information to the audience of DSP users. This immense compilation outlines both introductory and specialized aspects of information-bearing signals in digital form, creating a resource relevant to the expanding needs of the engineering community. It also explores the use of computers and special-purpose digital hardware in extracting information or

transforming signals in advantageous ways. Impacted areas presented include: Telecommunications Computer engineering Acoustics Seismic data analysis DSP software and hardware Image and video processing Remote sensing Multimedia applications Medical technology Radar and sonar applications This authoritative collaboration, written by the foremost researchers and practitioners in their fields, comprehensively presents the range of DSP: from theory to application, from algorithms to hardware. **River Ice Processes and Ice Flood Forecasting A Guide for Practitioners and Students** *Springer Nature* This book exposes practitioners and students to the theory and application of river and lake ice processes to gain a better understanding of these processes for modelling and forecasting. It focuses on the following processes of the surface water ice: freeze-up, ice cover thickening, ice cover breakup and ice jamming. The reader will receive a fundamental understanding of the physical processes of each component and how they are applied in monitoring and modelling ice covers during the winter season and forecasting ice floods. Exercises accompany each component to reinforce the theoretical principles learned. These exercises will also expose the reader to different tools to process data, such a space-borne remote sensing imagery for ice cover classification. A thread supporting numerical modelling of river ice and lake ice processes runs through the book. **Educational Audiology Handbook, Third Edition** *Plural Publishing* Educational Audiology Handbook, Third Edition, offers a roadmap for audiologists who work in schools or other providers who support school-based audiology services. As the gold standard text in the field, the handbook provides guidelines and blueprints for creating and maintaining high-quality educational audiology programs. Educational audiologists will also find guidance for achieving full integration into a school staff. Within this comprehensive and practical resource, there are a range of tools, including assessment guidelines, protocols and forms, useful information for students, families, school staff, and community partners, as well as legal and reference documents. New to the Third Edition: * All chapters revised to reflect current terminology and best practices * A new feature called "Nuggets from the Field" which offers practical information from experienced educational audiologists currently working in school settings * Revised and updated chapter on legislative and policy essentials * Latest perspectives on auditory processing deficits * Contemporary focus on student wellness and social competence * Expanded information and resources for access to general education * Updated perspectives on hearing loss prevention * New information on the development of remote audiology practices * Materials and recommendations to support interprofessional collaboration * Updated and more comprehensive technology information with multiple handouts and worksheets * Resources for students in all current learning environments * Expanded focus on coaching to support students and school staff Disclaimer: Please note that ancillary content (such as documents, audio, and video, etc.) may not be included as published in the original print version of this book. **Decision-support Experiments and Evaluations Using Seasonal-to-interannual Forecasts and Observational Data A Focus on Water Resources : Synthesis and Assessment Product 5.3 Report Automated Technology for Verification and Analysis 11th International Symposium, ATVA 2013, Hanoi, Vietnam, October 15-18, 2013, Proceedings** *Springer* This

book constitutes the refereed proceedings of the 11th International Symposium on Automated Technology for Verification and Analysis, ATVA 2013, held at Hanoi, Vietnam, in October 2013. The 27 regular papers, 3 short papers and 12 tool papers presented together with 3 invited talks were carefully selected from73 submissions. The papers are organized in topical, sections on analysis and verification of hardware circuits, systems-on-chip and embedded systems, analysis of real-time, hybrid, priced/weighted and probabilistic systems, deductive, algorithmic, compositional, and abstraction/refinement techniques for analysis and verification, analytical techniques for safety, security, and dependability, testing and runtime analysis based on verification technology, analysis and verification of parallel and concurrent hardware/software systems, verification in industrial practice, and applications and case studies. **Nonparametric Detection Theory and Applications** *Dowden Hutchinson and Ross* **GM/T 0005-2012: Translated English of Chinese Standard (GMT 0005-2012, GM/T0005-2012, GMT0005-2012) Randomness test specification [Tips: BUY here & GET online-reading at GOOGLE. Then, if you need unprotected-PDF for offline-reading, WRITE to Wayne: Sales@ChineseStandard.net]** *https://www.chinesestandard.net* This Standard specifies the randomness test parameters and test methods in the commercial cryptography application. This Standard applies to the randomness test for binary sequence which is generated by random number generator. **High-Stakes Testing in Education Value, fairness and consequences** *Routledge* High-stakes educational testing is a global phenomenon which is increasing in both scale and importance. Assessments are high-stakes when there are serious consequences for one or more stakeholders. Historically, tests have largely been used for selection or for providing a 'licence to practise', making them high-stakes for the test takers. Testing is now also used for the purposes of improving standards of teaching and learning and of holding schools accountable for their students' results. These tests then become high-stakes for teachers and schools, especially when they have to meet externally imposed targets. More recent has been the emergence of international comparative testing, which has become high-stakes for governments and policy makers as their education systems are judged in relation to the performances of other countries. In this book we draw on research which examines each of these uses of high-stakes testing. The articles evaluate the impact of such assessments and explore the issues of value and fairness which they raise. To underline the international appeal of high-stakes testing the studies are drawn from Australia, Africa, the Caribbean, Europe, former Soviet republics and North America. Collectively they illustrate the power of high-stakes assessment in shaping, for better or for worse, policy making and schooling. This book was originally published as a special issue of Assessment in Education: Principles, Policy & Practice. **The ... IEEE International Symposium on Personal, Indoor, and Mobile Radio Communications Proceedings Theory of Preliminary Test and Stein-Type Estimation with Applications** *John Wiley & Sons* Theory of Preliminary Test and Stein-Type Estimation withApplications provides a com-prehensive account of the theory andmethods of estimation in a variety of standard models used inapplied statistical inference. It is an in-depth introduction tothe estimation theory for graduate students, practitioners, andresearchers in various fields, such as statistics,

engineering,social sciences, and medical sciences. Coverage of the material isdesigned as a first step in improving the estimates before applyingfull Bayesian methodology, while problems at the end of eachchapter enlarge the scope of the applications. This book contains clear and detailed coverage of basic terminologyrelated to various topics, including: * Simple linear model; ANOVA; parallelism model; multipleregression model with non-stochastic and stochastic constraints;regression with autocorrelated errors; ridge regression; andmultivariate and discrete data models * Normal, non-normal, and nonparametric theory of estimation * Bayes and empirical Bayes methods * R-estimation and U-statistics * Confidence set estimation **Teaching Psychology An Evidence-Based Approach** *John Wiley & Sons* A guide to an evidence-based approach for teaching college-level psychology courses Teaching Psychology offers an evidence-based, student-centered approach that is filled with suggestions, ideas, and practices for teaching college-level courses in ways that contribute to student success. The authors draw on current scientific studies of learning, memory, and development, with specific emphasis on classroom studies. The authors offer practical advice for applying scholarly research to teaching in ways that maximize student learning and personal growth. The authors endorse the use of backward course design, emphasizing the importance of identifying learning goals (encompassing skills and knowledge) and how to assess them, before developing the appropriate curriculum for achieving these goals. Recognizing the diversity of today's student population, this book offers guidance for culturally responsive, ethical teaching. The text explores techniques for teaching critical thinking, qualitative and quantitative reasoning, written and oral communication, information and technology literacy, and collaboration and teamwork. The authors explain how to envision the learning objectives teachers want their students to achieve and advise how to select assessments to evaluate if the learning objectives are being met. This important resource: Offers an evidence-based approach designed to help graduate students and new instructors embrace a student-centered approach to teaching; Contains a wealth of examples of effective student-centered teaching techniques; Surveys current findings from the Scholarship of Teaching and Learning; Draws on the American Psychological Association's five broad goals for the undergraduate Psychology major and shows how to help students build life-long skills; and, Introduces Universal Design for Learning as a framework to support diverse learners. Teaching Psychology offers an essential guide to evidence-based teaching and provides practical advice for becoming an effective teacher. This book is designed to help graduate students, new instructors, and those wanting to update their teaching methods. It is likely to be particularly useful for instructors in psychology and other social science disciplines. **Microbiological Examination Methods of Food and Water A Laboratory Manual** *CRC Press* Microbiological Examination Methods of Food and Water is an illustrated laboratory manual that provides an overview of current standard microbiological culture methods for the examination of food and water, adhered to by renowned international organizations, such as ISO, AOAC, APHA, FDA and FSIS/USDA. It includes methods for the enumeration of indicator microorganisms of general contamination, indicators of hygiene and sanitary conditions, sporeforming, spoilage fungi and pathogenic bacteria. Every chapter begins with a comprehensive, in-depth and updated

bibliographic reference on the microorganism(s) dealt with in that particular section of the book. The latest facts on the taxonomic position of each group, genus or species are given, as well as clear guidelines on how to deal with changes in nomenclature on the internet. All chapters provide schematic comparisons between the methods presented, highlighting the main differences and similarities. This allows the user to choose the method that best meets his/her needs. Moreover, each chapter lists validated alternative quick methods, which, though not described in the book, may and can be used for the analysis of the microorganism(s) dealt with in that particular chapter. The didactic setup and the visualization of procedures in step-by-step schemes allow the user to quickly perceive and execute the procedure intended. Support material such as drawings, procedure schemes and laboratory sheets are available for downloading and customization. This compendium will serve as an up-to-date practical companion for laboratory professionals, technicians and research scientists, instructors, teachers and food and water analysts. Alimentary engineering, chemistry, biotechnology and biology (under)graduate students specializing in food sciences will also find the book beneficial. It is furthermore suited for use as a practical/laboratory manual for graduate courses in Food Engineering and Food Microbiology. **Internet Governance in Transition Who is the Master of this Domain?** *Rowman & Littlefield* All Internet users will find this book a useful tool for understanding the increasingly complex web of Internet control. **An Evidence-based Clinical Textbook in Obstetrics & Gynecology for MRCOG-2** *JP Medical Ltd* This book is a practical guide to obstetrics and gynaecology for trainees preparing for the MRCOG Part 2 examination. Beginning with a brief overview of general principles, the rest of the book is clearing set into two sections – Obstetrics, and Gynaecology. Each of these sections is further divided to discuss the diagnosis and management of numerous disorders within each sub-specialty. The book has been written in accordance with the current MRCOG Part 2 curriculum and includes the very latest RCOG Green-top guidelines and NICE guidelines. Additionally, this comprehensive textbook features the latest statistics on maternal and perinatal mortality in the UK, published by MBRRACE-UK in December 2016. Key Points Practical guide to obstetrics and gynaecology for MRCOG Part 2 candidates Written in accordance with current MRCOG Part 2 curriculum Includes latest RCOG Green-top guidelines and NICE guidelines Features latest statistics on maternal and perinatal mortality from MBRRACE-UK **Skills for Midwifery Practice E-Book** *Elsevier Health Sciences* Skills for Midwifery Practice is the go-to book for all midwifery students who need to learn what to do in a range of situations, how to perform a skill, and why they need to do it in a certain way. Written by midwifery educators Ruth Johnson and Wendy Taylor, the book makes learning easy with background information, learning outcomes, helpful diagrams and lists to represent the skill flow. It explains the underlying physiology associated with pregnancy and childbirth, and clearly defines the nature and extent of current practice. This version is fully updated and referenced throughout to provide a detailed evidence base to support learning and further study. It is ideal for midwives in training, qualified midwives returning to practice, as well as other members of the obstetric healthcare team. Clear and logical – easy to follow and understand for training midwives Accurate, up-to-date evidence base that is relevant to contemporary midwifery

practice Each skill contextualized with background, indications and contraindications to support both clinical practice and study Learning objectives and end-of-chapter self-assessment exercises allow readers to monitor their progress New to this edition Latest guidelines and standards New information on resuscitation and other emergencies Now in full color throughout Expanded chapter on the use of standard precautions in light of the global pandemic Developed discussion of alternative feeding methods **Proceedings GB/T 28900-2012: Translated English of Chinese Standard. (GBT28900-2012) Test methods of steel for reinforcement of concrete [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net]** *https://www.chinesestandard.net* [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the test methods for tensile, bending, reverse bending, axial fatigue, chemical analysis, geometric measurement, measurement of relative rib area, determination of weight deviation, metallographic inspection of steel, for reinforcement of concrete. This standard applies to steel products for reinforcement of concrete. **Prefabricated thin walled concrete units** *FIB - International Federation for Structural Concrete* This volume provides a description of units, fibre reinforcement materials and technologies used to produce units with wall thicknesses from 5m to 40mm. The risk factors and long term effects are also described. **1997 IEEE International Conference on Acoustics, Speech, and Signal Processing April 21-24, 1997, Munich, Germany Carpenter's Guide to Innovative SAS Techniques** *SAS Institute* Carpenter's Guide to Innovative SAS Techniques offers advanced SAS programmers an all-in-one programming reference that includes advanced topics not easily found outside the depths of SAS documentation or more advanced training classes. Art Carpenter has written fifteen chapters of advanced tips and techniques, including topics on data summary, data analysis, and data reporting. Special emphasis is placed on DATA step techniques that solve complex data problems. There are numerous examples that illustrate advanced techniques that take advantage of formats, interface with the macro language, and utilize the Output Delivery System. Additional topics include operating system interfaces, table lookup techniques, and the creation of customized reports. **Specification of Software Systems** *Springer Science & Business Media* This extensively revised and updated new edition of Specification of Software Systems builds upon the original focus on software specification with added emphasis on the practice of formal methods for specification and verification activities for different types of software systems and at different stages of developing software systems. Topics and features: provides a wide coverage of formal specification techniques and a clear writing style, supported by end-of-chapter bibliographic notes for further reading; presents a logical structure, with sections devoted to specification fundamentals, basics of formalism, logic, set theory and relations, property-oriented specification methods, and model-based specification techniques; contains end-of-chapter exercises and numerous case studies, with potential course outlines suggested in the Preface; covers Object-Z, B-Method, and Calculus of Communicating Systems; offers material that can be taught with tool-supported laboratory projects. **Proceedings of the XV International Scientific Conference on Industrial Systems (IS'11)** *FON*

Preschool Assessment Principles and Practices *Guilford Press* Comprehensive and user friendly, this ideal professional reference and graduate text provides a developmentally informed framework for assessing 3- to 6-year-olds in accordance with current best practices and IDEA 2004 guidelines. The authors are leading clinician-researchers who take the reader step by step through selecting appropriate measures, integrating data from a variety of sources, and using the results to plan and evaluate effective interventions and learning experiences. Coverage encompasses screening and assessment of cognitive, linguistic, emotional, and behavioral difficulties, including mental retardation and autism. Case studies illustrate key facets of assessing diverse children and families; appendices offer concise reviews of over 100 instruments. **Wireless, Networking, Radar, Sensor Array Processing, and Nonlinear Signal Processing** *CRC Press* Now available in a three-volume set, this updated and expanded edition of the bestselling The Digital Signal Processing Handbook continues to provide the engineering community with authoritative coverage of the fundamental and specialized aspects of information-bearing signals in digital form. Encompassing essential background material, technical details, standards, and software, the second edition reflects cutting-edge information on signal processing algorithms and protocols related to speech, audio, multimedia, and video processing technology associated with standards ranging from WiMax to MP3 audio, low-power/high-performance DSPs, color image processing, and chips on video. Drawing on the experience of leading engineers, researchers, and scholars, the three-volume set contains 29 new chapters that address multimedia and Internet technologies, tomography, radar systems, architecture, standards, and future applications in speech, acoustics, video, radar, and telecommunications. This volume, Wireless, Networking, Radar, Sensor Array Processing, and Nonlinear Signal Processing, provides complete coverage of the foundations of signal processing related to wireless, radar, space–time coding, and mobile communications, together with associated applications to networking, storage, and communications. **PHOTOVOLTAIC SYSTEMS ANALYSIS AND DESIGN** *PHI Learning Pvt. Ltd.* This book offers a comprehensive treatment of the fundamentals of solar cells and their use in the photovoltaic (PV) technology, a major constituent of renewable sources of energy. It discusses the nature and measurement of solar radiation, methods for characterization of solar cells and determination of their parameters. The book describes the principle of operation of different types of inverters used in PV systems and also illustrates the design, construction and performance of photovoltaic operated systems such as the solar lantern, solar water pump, solar inverter and a general solar power system. Besides, it explains the process of uploading of power generated by solar arrays to the power grid for onwards transmission to distant locations. The economic aspects of the PV systems and their conventionally operated counterparts are also dealt with. The design procedure given in the book enables the reader to configure the desired PV system without the help of high priced patented software. The text is intended for a course on PV technologies undertaken by the undergraduate and postgraduate students of Electrical Engineering, Energy Studies, and Mechanical Engineering. In addition, the book would also be useful for teachers, scientists, engineers and professionals to quickly understand the fundamentals of photovoltaic technology.

KEY FEATURES : About one hundred figures, fifty circuit diagrams and several design examples are given. A large number of problems are given at the end of some chapters. References are provided for further study and research. **Structural Studies, Repairs and Maintenance of Heritage Architecture XI** *WIT Press* This volume contains papers presented at the Twelfth International Conference on Structural Studies, Repairs and Maintenance of Heritage Architecture. The conference provides an ideal forum for professionals in the area to discuss problems and solutions, and exchange opinions and experiences. **GB/T 21839-2019: Translated English of Chinese Standard. (GBT 21839-2019, GB/T21839-2019, GBT21839-2019) Test methods of steel for prestressing concrete [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net]** *https://www.chinesestandard.net* [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the test methods for the tensile, bending, repeated bending, torsion, winding and coating adhesion, isothermal relaxation, axial force fatigue, stress corrosion in thiocyanate solution, deflection tensile, chemical analysis, measurement of geometric dimensions, determination of relative rib area, determination of nominal mass deviation per meter, detection of anti-corrosion grease content, measurement of sheath thickness, coating uniformity, zinc layer quality and so on, of the steel for prestressing concrete. **Wilkins' Clinical Assessment in Respiratory Care - E-Book** *Elsevier Health Sciences* Master the patient assessment skills you need to provide effective respiratory care! Wilkins' Clinical Assessment in Respiratory Care, 9th Edition prepares you to assist physicians in the decision-making process regarding treatment, evaluation of the treatment's effectiveness, and determining if changes in the treatment need to be made. Chapters are updated to reflect the latest standards of practice and the newest advances in technology. From lead author Dr. Albert Heuer, a well-known educator and clinician, this market-leading text also aligns content with National Board for Respiratory Care exam matrices to help you prepare for success on the NBRC's CRT and RRT credentialing exams. Comprehensive approach addresses all of the most important aspects and topics of assessment, so you can learn to assess patients effectively. Case studies provide real-life clinical scenarios challenging you to interpret data and make accurate patient assessments. Questions to Ask boxes identify the questions practitioners should ask patients (e.g., coughing, sputum, shortness of breath) or questions to ask themselves (e.g., lung sounds they are hearing, blood pressure, respiratory rate) when confronted with certain pathologies. Learning objectives, key terms, and chapter outlines begin each chapter and introduce the content to be mastered. Assessment questions in each chapter are aligned to the learning objectives and reflect the NBRC Exam format, with answers located on the Evolve companion website. Key Points at the end of each chapter emphasize the topics identified in the learning objectives, providing easy review. Simply Stated boxes highlight and summarize key points to help you understand important concepts. NEW! Updated content throughout the text reflects the latest evidence-based practices and clinical developments, including infection control measures, imaging techniques, assessment of critically ill patients, and the increased reliance on telehealth and electronic health records. NEW! Updated and

revised content aligns with the latest NBRC credentialing exam matrix. NEW! Take-Home points are included for each chapter, plus cases as well as questions and answers for students to use in testing and applying their knowledge. **Activity Theory Perspectives on Technology in Higher Education** *IGI Global* Activity Theory is a tool that can help make sense of the complex changes taking place in higher education because of the integration of technology. Unlike other theories, it allows for a focus that includes elements in the social, cultural, and historical setting in which the technology is used. In addition, it supports consideration of the practices of individual students and educators as well as practices at the institutional level. Activity Theory Perspectives on Technology in Higher Education presents a compelling theory that will be useful for researchers, academics, policy makers, administrators, and instructors interested in understanding and controlling the shifts that are occurring in education due to the integration of technology. **Nursing Informatics 2016 EHealth for All: Every Level Collaboration – From Project to Realization** *IOS Press* As the importance of electronic and digital devices in the provision of healthcare increases, so does the need for interdisciplinary collaboration to make the most of the new technical possibilities which have become available. This book presents the proceedings of the 13th International Conference on Nursing Informatics, held in Geneva, Switzerland, in June 2016. This biennial international conference provides one of the most important opportunities for healthcare professionals from around the world to gather and exchange expertise in the research and practice of both basic and applied nursing informatics. The theme of this 13th conference is eHealth for All: Every Level Collaboration – From Project to Realization. The book includes all full papers, as well as workshops, panels and poster summaries from the conference. Subjects covered include a wide range of topics, from robotic assistance in managing medication to intelligent wardrobes, and from low-cost wearables for fatigue and back stress management to big data analytics for optimizing work processes, and the book will be of interest to all those working in the design and provision of healthcare today. **Using R for Introductory Statistics, Second Edition** *CRC Press* The second edition of a bestselling textbook, Using R for Introductory Statistics guides students through the basics of R, helping them overcome the sometimes steep learning curve. The author does this by breaking the material down into small, task-oriented steps. The second edition maintains the features that made the first edition so popular, while updating data, examples, and changes to R in line with the current version. See What's New in the Second Edition: Increased emphasis on more idiomatic R provides a grounding in the functionality of base R. Discussions of the use of RStudio helps new R users avoid as many pitfalls as possible. Use of knitr package makes code easier to read and therefore easier to reason about. Additional information on computer-intensive approaches motivates the traditional approach. Updated examples and data make the information current and topical. The book has an accompanying package, UsingR, available from CRAN, R's repository of user-contributed packages. The package contains the data sets mentioned in the text (data(package="UsingR")), answers to selected problems (answers()), a few demonstrations (demo()), the errata (errata()), and sample code from the text. The topics of this text line up closely with traditional teaching progression; however, the book also highlights computer-

intensive approaches to motivate the more traditional approach. The authors emphasize realistic data and examples and rely on visualization techniques to gather insight. They introduce statistics and R seamlessly, giving students the tools they need to use R and the information they need to navigate the sometimes complex world of statistical computing. **Proceedings of ... International Conference on Information, Communications, and Signal Processing Quantitative Psychology Research The 78th Annual Meeting of the Psychometric Society** *Springer* The 78th Annual Meeting of the Psychometric Society (IMPS) builds on the Psychometric Society's mission to share quantitative methods relevant to psychology. The chapters of this volume present cutting-edge work in the field. Topics include studies of item response theory, computerized adaptive testing, cognitive diagnostic modeling, and psychological scaling. Additional psychometric topics relate to structural equation modeling, factor analysis, causal modeling, mediation, missing data methods, and longitudinal data analysis, among others. The papers in this volume will be especially useful for researchers in the social sciences who use quantitative methods. Prior knowledge of statistical methods is recommended. The 78th annual meeting took place in Arnhem, The Netherlands between July 22nd and 26th, 2013. The previous volume to showcase work from the Psychometric Society's Meeting is New Developments in Quantitative Psychology: Presentations from the 77th Annual Psychometric Society Meeting (Springer, 2014). **Cumulated Index Medicus Clinical Manual of Youth Addictive Disorders** *American Psychiatric Pub* This long-awaited follow-up to the classic text Clinical Manual of Adolescent Substance Abuse Treatment presents the latest research on substance use and substance use disorders (SUDs) in adolescents 12--18 and emerging adults 18--25 years of age. This new manual offers a substantive update of the previous manual's 16 chapters, offering 7 additional chapters devoted to important new topics, such as pediatric primary care assessment and intervention, electronic tools, specific substances (e.g., cannabis, opioids, alcohol), and much more. Psychiatrists, psychologists, social workers, and substance abuse specialists, as well as applied researchers and public health professionals, will find this new manual a research-rich and clinically compelling resource for understanding disease course, prevention, diagnosis, substance-specific interventions, co-occurring disorders, and issues related to special populations. The strengths of this text, edited by two of the foremost experts on addiction among youth, are many: Because youth are not simply "miniature adults," the book uses a developmentally informed approach to understand the onset of substance use and the trajectory to SUD and behavioral addictive disorders. An extensive section of the book is devoted to epidemiology, diagnosis, and interventions for specific substances of abuse, including alcohol, tobacco, cannabis, and opioids. The full range of interventions are described for each, including pharmacotherapy, cognitive-behavior therapy, motivational enhancement, and psychosocial strategies. An introduction on the nature of the association between co-occurring disorders is followed by chapters on internalizing disorders (such as depression), suicidal behavior, psychotic disorders, externalizing disorders (such as attention-deficit/hyperactivity), and behavioral addictions Special chapters are devoted to the management of youth with SUDs in the juvenile justice system and the consequences, for the child, of maternal

substance use during pregnancy. Advances in research and clinical strategies make both topics timely. Three appendixes complete the book. The first offers resources for screening and assessment tools, the second provides a select list of websites for parents who are seeking advice and resources about drug prevention and intervention, and the third lists websites containing general information about self-help, including how to find local AA or NA meetings. Emerging research on developmental psychopathology and adolescent development has implications for how we view current prevention, intervention, and treatment paradigms, and Clinical Manual of Youth Addictive Disorders is indispensable in helping the reader understand and implement effective strategies for these patients and their families. **PASS CCRN®! - E-Book** *Elsevier Health Sciences* Fully updated to mirror the latest CCRN-Adult test plan, PASS CCRN®!, 4th Edition is well known for its innovative learning strategies, targeted-yet-comprehensive coverage, and meticulous accuracy. Each section of the exam is addressed in detail, with review content presented in logical outline format and accompanied by a wealth of illustrations, tables, and algorithms. Learning activities in the book, as well as more than 1,000 review questions on the companion Evolve website, offer valuable practice and test-taking experience. *The practice tests on the CD-ROM referenced on page 9 are now found on the accompanying website for the book. The website can be accessed by using the pincode found in the front matter of the book and following the prompts.* Completely updated content follows the latest CCRN Test Plan to ensure you have the most current information for exam preparation. Easy-to-follow outline format quickly and clearly presents the information you must know to pass the CCRN exam. Engaging learning activities provide fun and stimulating ways to learn critical concepts. Helpful appendices offer quick access to common abbreviations, laboratory values, and formulas essential to providing effective critical nursing care. NEW! Behavioral/Psychosocial chapter reflects the latest CCRN test plan, addressing behavioral and psychosocial issues that affect the care of the critically ill. More than 1,000 multiple-choice review questions on the new companion Evolve website offer convenient electronic access and can be answered in Study Mode or Exam Mode. Nearly 45% of the art is new or updated, including completely new algorithms based on the latest core protocols from the AHA, to help clarify complex concepts. Pharmacology boxes in each chapter highlight pharmacology as it pertains to each body system. **Artificial Intelligence in Cardiothoracic Imaging** *Springer Nature* This book provides an overview of current and potential applications of artificial intelligence (AI) for cardiothoracic imaging. Most AI systems used in medical imaging are data-driven and based on supervised machine learning. Clinicians and AI specialists can contribute to the development of an AI system in different ways, focusing on their respective strengths. Unfortunately, communication between these two sides is far from fluent and, from time to time, they speak completely different languages. Mutual understanding and collaboration are imperative because the medical system is based on physicians' ability to take well-informed decisions and convey their reasoning to colleagues and patients. This book offers unique insights and informative chapters on the use of AI for cardiothoracic imaging from both the technical and clinical perspective. It is also a single comprehensive source that provides a complete overview of the entire process of the development and use of AI

in clinical practice for cardiothoracic imaging. The book contains chapters focused on cardiac and thoracic applications as well more general topics on the potentials and pitfalls of AI in medical imaging. Separate chapters will discuss the valorization, regulations surrounding AI, cost-effectiveness, and future perspective for different countries and continents. This book is an ideal guide for clinicians (radiologists, cardiologists etc.) interested in working with AI, whether in a research setting developing new AI applications or in a clinical setting using AI algorithms in clinical practice. The book also provides clinical insights and overviews for AI specialists who want to develop clinically relevant AI applications.