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The Wiley-Blackwell Handbook of Individual Differences provides a comprehensive, up-to-date overview of recent research, current perspectives, practical applications, and likely future developments in individual differences. Brings together the work of the top global researchers within the area of individual differences, including Philip L. Ackerman, Ian J. Deary, Ed Diener, Robert Hogan, Deniz S. Ones and Dean Keith Simonton Covers methodological, theoretical and paradigm changes in the area of individual differences Individual chapters cover core areas of individual differences including personality and intelligence, biological causes of individual differences, and creativity and emotional intelligence Offshore Risk Assessment was the first book to deal with quantified risk assessment (QRA) as applied specifically to offshore installations and operations. Risk assessment techniques have been used for more than three decades in the offshore oil and gas industry, and their use is set to expand increasingly as the industry moves into new areas and faces new challenges in older regions. This updated and expanded third edition has been informed by a major R&D program on offshore risk assessment in Norway and summarizes research from 2006 to the present day. Rooted with a thorough discussion of risk metrics and risk analysis methodology, subsequent chapters are devoted to analytical approaches to escalation, escape, evacuation and rescue analysis of safety and emergency systems. Separate chapters analyze the main hazards of offshore structures: fire,

explosion, collision, and falling objects as well as structural and marine hazards. Risk mitigation and control are discussed, as well as an illustration of how the results from quantitative risk assessment studies should be presented. The third second edition has a stronger focus on the use of risk assessment techniques in the operation of offshore installations. Also decommissioning of installations is covered. Not only does *Offshore Risk Assessment* describe the state of the art of QRA, it also identifies weaknesses and areas that need further development. This new edition also illustrates applications or quantitative risk analysis methodology to offshore petroleum applications. A comprehensive reference for academics and students of marine/offshore risk assessment and management, the book should also be owned by professionals in the industry, contractors, suppliers, consultants and regulatory authorities.

The most comprehensive volume of its kind, *The Oxford Handbook of Mood Disorders* provides detailed coverage of the characterization, understanding, and treatment of mood disorders. Chapters are written by the world's leading experts in their respective areas. The Handbook provides coverage of unipolar depression, bipolar disorder, and variants of these disorders. Current approaches to classifying the mood disorders are reviewed and contemporary controversies are placed in historical context. Chapter authors offer a variety of approaches to understanding the heterogeneity of the experiences of those who meet criteria for mood disorders, both within and across cultures. The role of

genetic and environmental risk factors as well as premorbid personality and cognitive processes in the development of mood pathology are detailed. Interpersonal, neurobiological, and psychological factors also receive detailed consideration. The volume reviews mood disorders in special populations (e.g., postpartum and seasonal mood disorders) as well as common comorbidities (e.g., anxiety, substance use disorders). Somatic and psychosocial treatment approaches receive in-depth coverage with chapters that describe and review empirical evidence regarding each of the most influential treatment approaches. The depth and breadth offered by this Handbook make it an invaluable resource for clinicians and researchers, as well as scholars and students.

Offshore Risk Assessment vol 2.Principles, Modelling and Applications of QRA StudiesSpringer Science & Business Media

The Handbook of the Psychology of Aging, Seventh Edition, provides a basic reference source on the behavioral processes of aging for researchers, graduate students, and professionals. It also provides perspectives on the behavioral science of aging for researchers and professionals from other disciplines. The book is organized into four parts. Part 1 reviews key methodological and analytical issues in aging research. It examines some of the major historical influences that might provide explanatory mechanisms for a better understanding of cohort and period differences in psychological aging processes. Part 2 includes chapters that discuss the basics and nuances of executive

function; the history of the morphometric research on normal brain aging; and the neural changes that occur in the brain with aging. Part 3 deals with the social and health aspects of aging. It covers the beliefs that individuals have about how much they can control various outcomes in their life; the impact of stress on health and aging; and the interrelationships between health disparities, social class, and aging. Part 4 discusses the emotional aspects of aging; family caregiving; and mental disorders and legal capacities in older adults. Contains all the main areas of psychological gerontological research in one volume Entire section on neuroscience and aging Begins with a section on theory and methods Edited by one of the father of gerontology (Schaie) and contributors represent top scholars in gerontology

Research and development surrounding the use of data queries is receiving increased attention from computer scientists and data specialists alike. Through the use of query technology, large volumes of data in databases can be retrieved, and information systems built based on databases can support problem solving and decision making across industries. The Handbook of Research on Innovative Database Query Processing Techniques focuses on the growing topic of database query processing methods, technologies, and applications. Aimed at providing an all-inclusive reference source of technologies and practices in advanced database query systems, this book investigates various techniques, including database and XML queries, spatiotemporal data queries, big data queries, metadata queries, and

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applications of database query systems. This comprehensive handbook is a necessary resource for students, IT professionals, data analysts, and academicians interested in uncovering the latest methods for using queries as a means to extract information from databases. This all-inclusive handbook includes the latest research on topics pertaining to information retrieval, data extraction, data management, design and development of database queries, and database and XM queries.

Covering a time span of 1968 to 1998, and encompassing a spectrum of over 14,000 items across the history of the computer, console, accessories and software markets, the Vintropedia 2009 Price Guide is the definitive resource to a collector's needs. Included within are prices (in GBP), machine specifications, regions of origin, release dates, model names, publishing companies, old ads and more! Look no further than Vintropedia, a guide created by collectors, for collectors.

The exponential growth of clinical psychology since the late 1960s can be measured in part by the extensive—perhaps exhaustive—literature on the subject. This proliferation of writing has continued into the new century, and the field has come to be defined as much by its many topics as its many voices. The Oxford Handbook of Clinical Psychology synthesizes these decades of literature in one extraordinary volume. Comprising chapters from the foremost scholars in clinical psychology, the handbook provides even and authoritative coverage of the research, practice, and policy factors that combine to form today's clinical

psychology landscape. In addition to core sections on topics such as training, assessment, diagnosis, and intervention, the handbook includes valuable chapters devoted to new and emerging issues in the clinical field, including health care reforms, cultural factors, and technological innovations and challenges. Each chapter offers a review of the most pertinent literature, outlining current issues and identifying possibilities for future research. Featuring two chapters by Editor David H. Barlow -- one on changes during his own 40-year odyssey in the field, the other projecting ten themes for the future of clinical psychology -- *The Oxford Handbook of Clinical Psychology* is a landmark publication that is sure to serve as the field's benchmark reference publication for years to come. It is an essential resource for students, clinicians, and researchers across the ever-growing clinical psychology community.

This handbook presents a comprehensive study of the post-reform Indian economy, three decades after the economic liberalization started in the early 1990s. It studies the broad range of changes that were introduced in the reforms era, assessing their impact on sectors like manufacturing, agriculture, banking and finance, among others. It also assesses the performance of these sectors amid globalization and the socio-economic shifts in the country. The volume evaluates the contribution of the reforms to social transformation, social inclusion, sustainability and human development, and deliberates on the gains, blind spots and limitations. With contributions from scholars across the country, case studies and comparative analyses that draw on data

analysis, econometric evidence and historical sensibility, this is an authoritative volume on the reforms of the 1990s and their impact on the Indian economy and people. Topical and the first of its kind, the book will be a useful resource for scholars and researchers of economics, development studies, political economy, management studies, public policy and political studies. The Routledge Handbook of Contemporary Italy provides a comprehensive account of Italy and Italian politics in the 21st Century. Featuring contributions from many leading scholars in the field, this Handbook is comprised of 28 chapters which are organized to deliver unparalleled analysis of Italian society, politics and culture. A wide range of topics are covered, including: Politics and economy, and their impact on Italian society Parties and new politics Regionalism and migrations Public memories Continuities and transformations in contemporary Italian society. This is an essential reference work for scholars and students of Italian and Western European society, politics, and history. The leading reference on personality disorders and their treatment, this authoritative work is now significantly revised with 80% new content reflecting important advances in the field. Preeminent experts provide in-depth coverage of conceptual and taxonomic issues, psychopathology, epidemiology and longitudinal course, etiology and development, and specific diagnoses. Diagnostic issues are explored and available assessment instruments discussed. All available evidence-based treatments are reviewed in consistently organized chapters that cover theoretical and empirical

foundations as well as clinical strategies, facilitating comparison of the various approaches. New to This Edition *Incorporates more than 15 years of major research advances; includes 21 chapters on new topics. *Critically examines DSM-5 diagnostic criteria. *Chapters on additional treatments--mentalization-based treatment, schema-focused therapy, transference-based psychotherapy, and systems training for emotional predictability and problem solving. *Chapters on dimensional models, longitudinal studies, and personality pathology in children and adolescents. *Chapters on specific diagnoses: antisocial/psychopathic, borderline, and obsessive-compulsive personality disorder. *Integrative section introductions by the editors. See also *Integrated Treatment for Personality Disorder*, edited by W. John Livesley, Giancarlo Dimaggio, and John F. Clarkin, which weaves multiple well-established intervention strategies into a systematic modular approach.

Methods in Chemical Process Safety, Volume Four focuses on the process of learning from experience, including elements of process safety management, human factors in the chemical process industries, and the regulation of chemical process safety, including current approaches. Users will find this book to be an informative tool and user manual for process safety for a variety of professionals with this new release focusing on *Advanced Methods of Risk Assessment and Management, Logic Based Methods for Dynamic Risk Assessment, Bayesian Methods for Dynamic Risk Assessment, Data Driven Methods, Rare Event Risk*

Assessment, Risk Management and Multi Criteria, and much more. Helps acquaint the reader/researcher with the fundamentals of process safety Provides the most recent advancements and contributions on the topic from a practical point-of-view Presents users with the views/opinions of experts in each topic Includes a selection of authors who are leading researchers and/or practitioners for each given topic

Now in its second edition, *Gynecologic Oncology Handbook: An Evidence-Based Clinical Guide* has been thoroughly updated to include the latest advances in surgical techniques, chemotherapy protocols, AJCC 8th Edition staging criteria, and much more. This current edition contains illustrations that reinforce key concepts, algorithms for diagnostic techniques, and tables to guide you in optimal disease management. The handbook covers the spectrum of gynecologic oncology from seminal studies to guide the oncologist, to the essential workup for the Obstetrician/Gynecologist and related clinician. This handbook can be carried by the practitioner on the ward or in the clinic. It includes necessary details on gynecologic cancer screening and treatment regimens for preinvasive disease, to staging and management of all the gynecologic cancers such as cervical cancer, ovarian cancer, uterine cancer, vulvar cancer, vaginal cancer, and gestational trophoblastic disease. It highlights evidence-based best practices for managing these cancers, hereditary cancer syndromes, for surgical care, and for all adjuvant therapies including chemotherapy, radiation therapy, targeted therapies, and immunotherapies. Detailed sections on survivorship

care, palliative care, as well as managing reproductive function and other comorbid medical conditions make this a 'one-stop shop' for navigating all clinical aspects and effects of gynecologic cancer. Featuring new and important clinical study references, medical comorbidity algorithms, directed gynecologic cancer workups and treatments, numerous tables and easy-to-reference illustrations, the Gynecologic Oncology Handbook, 2nd Edition is the ultimate quick reference for the clinical management of all gynecologic malignancies and related conditions. Key Features: Covers all fundamentals of gynecologic oncology including workup, staging, surgical management, chemotherapy and radiation therapy treatment, comorbidity diagnosis and management, and background study data Provides Gynecologic Oncology Referral Parameters, Performance Status Scales, Adverse Event Grading, RECIST evaluation criteria, chemotherapy protocols, statistics, and other useful formulas. Includes clinical study references, medical comorbidity algorithms, directed workups, and treatment guidelines

Diagnosing Borderline Personality Disorder (BPD) in young people has long been a tough call for clinicians, either for fear of stigmatizing the child or confusing the normal mood shifts of adolescence with pathology. Now, a recent upsurge in relevant research into early-onset BPD is inspiring the field to move beyond this hesitance toward a developmentally nuanced understanding of the disorder. The Handbook of Borderline Personality Disorder in Children and Adolescents reflects the broad scope and empirical strengths of current research as well

as promising advances in treatment. This comprehensive resource is authored by veteran and emerging names across disciplines, including developmental psychopathology, clinical psychology, child psychiatry, genetics and neuroscience in order to organize the field for an integrative future. Leading-edge topics range from the role of parenting in the development of BPD to trait-based versus symptom-based assessment approaches, from the life-course trajectory of BPD to the impact of the DSM-5 on diagnosis. And of particular interest are the data on youth modifications of widely used adult interventions, with session excerpts. Key areas featured in the Handbook: The history of research on BPD in childhood and adolescence. Conceptualization and assessment issues. Etiology and core components of BPD. Developmental course and psychosocial correlates. Empirically supported treatment methods. Implications for future research, assessment and intervention. The Handbook of Borderline Personality Disorder in Children and Adolescents is a breakthrough reference for researchers and clinicians in a wide range of disciplines, including child and school psychology and psychiatry, social work, psychotherapy and counseling, nursing management and research and personality and social psychology.

“Top agricultural scientists from around the world have taken up the challenge of sustainable agriculture, with the specific focus on integrating agronomic, climatological, biophysical and socio-economic perspectives and processes. Every chapter (of the Handbook) contributes to addressing the growing food-

security challenges facing the world.”Foreword by Jeffrey Sachs, Director of the Earth Institute at Columbia UniversityClimate effects on agriculture are of increasing concern in both the scientific and policy communities because of the growing population and the greater uncertainty in the weather during growing seasons. Changes in production are directly linked to variations in temperature and precipitation during the growing season and often to the offseason changes in weather because of soil water storage to replenish the soil profile. This is not an isolated problem but one of worldwide interest because each country has concerns about their food security.The Agricultural Model Intercomparison and Improvement Project (AgMIP) was developed to evaluate agricultural models and intercompare their ability to predict climate impacts. In sub-Saharan Africa and South Asia, South America and East Asia, AgMIP regional research teams (RRTs) are conducting integrated assessments to improve understanding of agricultural impacts of climate change (including biophysical and economic impacts) at national and regional scales. Other AgMIP initiatives include global gridded modeling, data and information technology (IT) tool development, simulation of crop pests and diseases, site-based crop-climate sensitivity studies, and aggregation and scaling. This evidence-based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease. Chapters cover nutrition assessment; macro- and micronutrient absorption; malabsorption; food allergies; prebiotics and dietary

fiber; probiotics and intestinal microflora; nutrition and GI cancer; nutritional management of reflux; nutrition in IBS and IBD; nutrition in acute and chronic pancreatitis; enteral nutrition; parenteral nutrition; medical and endoscopic therapy of obesity; surgical therapy of obesity; pharmacologic nutrition, and nutritional counseling.

The Routledge Handbook of Global Public Health addresses emerging issues and conceptualizations in global health, expanding upon the critical priorities in this rapidly evolving field. It provides an authoritative overview for students, practitioners, researchers, and policy makers concerned with public health around the globe.

The definitive reference to the policies and practices for treating disruptive and impulse-control disorders, edited by renowned experts The Wiley Handbook of Disruptive and Impulse-Control Disorders offers a comprehensive overview that integrates the most recent and important scholarship and research on disruptive and impulse-control disorders in children and adolescents. Each of the chapters includes a summary of the most relevant research and knowledge on the topic and identifies the implications of the findings along with important next directions for research. Designed to be practical in application, the text explores the applied real-world value of the accumulated research findings, and the authors include policy implications and recommendations. The Handbook address the nature and definition of the disorders, the risk factors associated with the development and maintenance of this cluster of

disorders, assessment processes, as well as the evidence-based treatment and prevention practices. The volume incorporates information from the ICD-11, a newly revised classification system, along with the recently published DSM-5. This important resource: Contains a definitive survey that integrates the most recent and important research and scholarship on disruptive and impulse-control disorders in children and adolescents Emphasizes the applied real-world value of the accumulated research findings Explores the policy implications and recommendations to encourage evidence-based practice Examines the nature and definition, risk factors, assessment, and evidence-based practice; risk factors are subdivided into child, family, peer group and broader context Considers changes, advances and controversies associated with new and revised diagnostic categories Written for clinicians and professionals in the field, *The Wiley Handbook of Disruptive and Impulse-Control Disorders* offers an up-to-date review of the most authoritative scholarship and research on disruptive and impulse-control disorders in children and adolescents as well as offering recommendations for practice.

Continuing its superiority in the health care risk management field, this sixth edition of *The Risk Management Handbook for Health Care Organizations* is written by the key practitioners and consultant in the field. It contains more practical chapters and health care examples and additional material on methods and techniques of risk reduction

and management. It also revises the structure of the previous edition, and focuses on operational and organizational structure rather than risk areas and functions. The three volumes are written using a practical and user-friendly approach.

The book is a guide for Layers of Protection Analysis (LOPA) practitioners. It explains the onion skin model and in particular, how it relates to the use of LOPA and the need for non-safety instrumented independent protection layers. It provides specific guidance on Independent Protection Layers (IPLs) that are not Safety Instrumented Systems (SIS). Using the LOPA methodology, companies typically take credit for risk reductions accomplished through non-SIS alternatives; i.e. administrative procedures, equipment design, etc. It addresses issues such as how to ensure the effectiveness and maintain reliability for administrative controls or "inherently safer, passive" concepts. This book will address how the fields of Human Reliability Analysis, Fault Tree Analysis, Inherent Safety, Audits and Assessments, Maintenance, and Emergency Response relate to LOPA and SIS. The book will separate IPL's into categories such as the following:

- Inherent Safety eliminates a scenario or fundamentally reduces a hazard
- Preventive/Proactive prevents initiating event from occurring such as enhanced maintenance
- Preventive/Active stops chain of events after

initiating event occurs but before an incident has occurred such as high level in a tank shutting off the pump. Mitigation (active or passive) minimizes impact once an incident has occurred such as closing block valves once LEL is detected in the dike (active) or the dike preventing contamination of groundwater (passive).

Big data analytics utilizes a wide range of software and analytical tools to provide immediate, relevant information for efficient decision-making. Companies are recognizing the immense potential of BDA, but ensuring the data is appropriate and error-free is the largest hurdle in implementing BDA applications.

The Handbook of Research on Organizational Transformations through Big Data Analytics not only catalogues the existing platforms and technologies, it explores new trends within the field of big data analytics (BDA). Containing new and existing research materials and insights on the various approaches to BDA; this publication is intended for researchers, IT professionals, and CIOs interested in the best ways to implement BDA applications and technologies.

The 2nd edition of the Handbook of Technological Pedagogical Content Knowledge (TPACK) for Educators addresses the concept and implementation of technological pedagogical content knowledge—the knowledge and skills that teachers need in order to integrate technology meaningfully

into instruction in specific content areas. Driven by the growing influence of TPACK on research and practice in both K-12 and higher education, the 2nd edition updates current thinking about theory, research, and practice. Offering a series of chapters by scholars in different content areas who apply the technological pedagogical content knowledge framework to their individual content areas, the volume is structured around three themes: Current thoughts on TPACK Theory Research on Technological Pedagogical Content Knowledge in Specific Subject Areas Integrating Technological Pedagogical Content Knowledge into Teacher Education and Professional Development The Handbook of Technological Pedagogical Content Knowledge (TPACK) for Educators is simultaneously a mandate and a manifesto on the engagement of technology in classrooms.

Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems.

They cover not only information and communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management.

Therefore, it is critical to remain up-to-date on the latest advancements and applications, as well as current issues and challenges. The Handbook of Research on Cloud Computing and Big Data

Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

Remote Sensing from a New Perspective The idea for this book began many years ago, when I was asked to teach a course on remote sensing. Not long before that time, I had been part of the effort to develop the first database for planetary data with a common digital array format and interactive processing capabilities to correlate those data easily: the lunar consortium. All the available lunar remote sensing data were included, orbital and ground-based, ranging across the entire electromagnetic spectrum. I had used this powerful tool extensively, and, in that spirit, I was determined to create a course which covered the entire spectrum and a variety of targets. As I looked around for the equivalent of a textbook, which I was willing to pull together from several sources, I realized that available material was very heavily focused on the visual and near visual spectrum and on the Earth as a target. Even *The Surveillant Science*, edited by

Edward Holz and published in 1973, which broke new ground in having diverse articles on most of the spectrum when it was created, focused entirely on the Earth. My personal favorite, the exceedingly well written book on remote sensing by Floyd Sabins first published in 1978, covered the visual, infrared, and microwave portions of the spectrum beautifully but focused on the Earth as well. Unhindered, I developed what I called 'packets' of material for each part of the spectrum.

The Handbook of Dynamic Data Driven Applications Systems establishes an authoritative reference of DDDAS, pioneered by Dr. Darema and the co-authors for researchers and practitioners developing DDDAS technologies. Beginning with general concepts and history of the paradigm, the text provides 32 chapters by leading experts in 10 application areas to enable an accurate understanding, analysis, and control of complex systems; be they natural, engineered, or societal: Earth and Space Data Assimilation Aircraft Systems Processing Structures Health Monitoring Biological Data Assessment Object and Activity Tracking Embedded Control and Coordination Energy-Aware Optimization Image and Video Computing Security and Policy Coding Systems Design The authors explain how DDDAS unifies the computational and instrumentation aspects of an application system, extends the notion of Smart Computing to span from

the high-end to the real-time data acquisition and control, and manages Big Data exploitation with high-dimensional model coordination.

Within the last fifty years the performance requirements for technical objects and systems were supplemented with: customer expectations (quality), abilities to prevent the loss of the object properties in operation time (reliability and maintainability), protection against the effects of undesirable events (safety and security) and the ability to

Gas and Oil Reliability Engineering: Modeling and Analysis, Second Edition, provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs to stay competitive, especially while oil prices are low. Updated with relevant analysis and case studies covering equipment for both onshore and offshore operations, this reference provides the engineer and manager with more information on lifetime data analysis (LDA), safety integrity levels (SILs), and asset management. New chapters on safety, more coverage on the latest software, and techniques such as ReBi (Reliability-Based Inspection), ReGBI (Reliability Growth-Based Inspection), RCM (Reliability Centered Maintenance), and LDA (Lifetime Data Analysis), and asset integrity management, make the book a critical resource that will arm engineers and managers with the basic reliability principles and

standard concepts that are necessary to explain their use for reliability assurance for the oil and gas industry. Provides the latest tactics and processes that can be used in oil and gas markets to improve reliability knowledge and reduce costs Presents practical knowledge with over 20 new internationally-based case studies covering BOPs, offshore platforms, pipelines, valves, and subsea equipment from various locations, such as Australia, the Middle East, and Asia Contains expanded explanations of reliability skills with a new chapter on asset integrity management, relevant software, and techniques training, such as THERP, ASEP, RBI, FMEA, and RAMS

For the first time in history, eradicating world poverty is within our reach. Yet around the world, a billion people struggle to live each day on less than many of us pay for bottled water. In *The Life You Can Save*, Peter Singer uses ethical arguments, illuminating examples, and case studies of charitable giving to show that our current response to world poverty is not only insufficient but morally indefensible. *The Life You Can Save* teaches us to be a part of the solution, helping others as we help ourselves.

'This important revision with updated material will inform professionals, students, and the interested public of evolving international perspectives on EBD. New chapters consider causation, the influence and role of social contexts and social support, ADHD, teacher knowledge and parental engagement. The new content presents us with fresh ideas and approaches.' - Katherine Bilton, University of Alaska, USA This new edition of *The Handbook of Emotional and*

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Behavioural Difficulties, first published in 2004, has been completely reworked and refreshed by a new editorial team led by Philip Garner. A thorough revision of existing content, together with new material, bring the volume firmly up-to-date, and offers guidance and recommendations for future research and practice. Covering a range of important issues in EBD, chapters are organized into five main parts: Contexts, Definitions and Terminologies Roots, Causes and Allegiances Strategies and Interventions Training and Professional Development Enhancement EBD Futures - Challenges and Opportunities With an impressive array of UK, US and other international contributors, the Handbook will be indispensable for undergraduate and Master's level students pursuing Teacher Training, Educational and Developmental Psychology and Special Education courses. It will also be valuable to social workers, counsellors, school (educational) psychologists and other practitioners in relevant fields.

Presents the theory and methodology for reliabilityassessments of safety-critical functions through examples from a wide range of applications Reliability of Safety-Critical Systems: Theory andApplications provides a comprehensive introduction to reliability assessments of safety-related systems based on electrical, electronic, and programmable electronic (E/E/PE) technology. With a focus on the design and development phases of safety-critical systems, the book presents theory and methods required to document compliance with IEC 61508 and the associated sector-specific standards. Combining theory and practical applications, Reliability of Safety-Critical Systems: Theory and Applications implements key safety-related strategies and methods to meet quantitative safety integrity requirements. In addition, the book details a variety of reliability analysis methods that are needed during all stages of a safety-critical system, beginning with specification

and design and advancing to operations, maintenance, and modification control. The key categories of safety life-cycle phases are featured, including strategies for the allocation of reliability performance requirements; assessment methods in relation to design; and reliability quantification in relation to operation and maintenance. Issues and benefits that arise from complex modern technology developments are featured, as well as: Real-world examples from large industry facilities with major accident potential and products owned by the general public such as cars and tools. Plentiful worked examples throughout that provide readers with a deeper understanding of the core concepts and aid in the analysis and solution of common issues when assessing all facets of safety-critical systems. Approaches that work on a wide scope of applications and can be applied to the analysis of any safety-critical system. A brief appendix of probability theory for reference. With an emphasis on how safety-critical functions are introduced into systems and facilities to prevent or mitigate the impact of an accident, this book is an excellent guide for professionals, consultants, and operators of safety-critical systems who carry out practical, risk, and reliability assessments of safety-critical systems. Reliability of Safety-Critical Systems: Theory and Applications is also a useful textbook for courses in reliability assessment of safety-critical systems and reliability engineering at the graduate-level, as well as for consulting companies offering short courses in reliability assessment of safety-critical systems.

The safe and reliable performance of many systems with which we interact daily has been achieved through the analysis and management of risk. From complex infrastructures to consumer durables, from engineering systems and technologies used in transportation, health, energy, chemical, oil, gas, aerospace, maritime, defence and other sectors, the management of risk during design,

manufacture, operation and decommissioning is vital. Methods and models to support risk-informed decision-making are well established but are continually challenged by technology innovations, increasing interdependencies, and changes in societal expectations. Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25—29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management. Philippines Energy Policy, Laws and Regulations Handbook - Strategic Information, Policy, Regulations

The Oxford Handbook of Health Psychology brings together preeminent experts to provide a comprehensive view of key concepts, tools, and findings of this rapidly expanding core discipline. The contributors address foundational concepts of the biopsychosocial approach to health and then discuss applications to health promotion, health behavior change, and treatment.

For many researchers, Python is a first-class tool mainly because of its libraries for storing, manipulating, and gaining insight from data. Several resources exist for individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools.

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Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in Python Matplotlib: includes capabilities for a flexible range of data visualizations in Python Scikit-Learn: for efficient and clean Python implementations of the most important and established machine learning algorithms

The Handbook of Forensic Psychopathology and Treatment explores the relationship between psychopathology and criminal behaviour in juveniles and adults. It provides a detailed explanation of the developmental pathway from the process of increasing criminal behaviour and becoming a forensic patient, to assessment, treatment and rehabilitation. Incorporating theoretical and scientific research reviews, as well as reviews regarding forensic rehabilitation, the book covers the theory, maintenance and treatment of psychopathology in offenders who have committed a crime. The Handbook of Forensic Psychopathology and Treatment will be of interest to masters and postgraduate students studying the relationship between psychopathology and crime, as well as researchers and clinicians working in forensic psychiatry institutions or departments. Contributors offer ideas, applications, and resources for helping leaders and educators tackle the challenges of building successful professional learning communities. This

wide-ranging text will prove indispensable for any democratically accountable leader committed to organizational change through communities of practice. Psychology is of interest to academics from many fields, as well as to the thousands of academic and clinical psychologists and general public who can't help but be interested in learning more about why humans think and behave as they do. This award-winning twelve-volume reference covers every aspect of the ever-fascinating discipline of psychology and represents the most current knowledge in the field. This ten-year revision now covers discoveries based in neuroscience, clinical psychology's new interest in evidence-based practice and mindfulness, and new findings in social, developmental, and forensic psychology. Learning strategies for critical thinking are a vital part of today's curriculum as students have few additional opportunities to learn these skills outside of school environments. Therefore, it is of utmost importance for pre-service teachers to learn how to infuse critical thinking skill development in every academic subject to assist future students in developing these skills. The Handbook of Research on Critical Thinking Strategies in Pre-Service Learning Environments is a collection of innovative research on the methods and applications of critical thinking that highlights ways to effectively use critical thinking strategies and implement critical thinking skill development into courses. While highlighting topics including deep learning, metacognition, and discourse analysis, this book is ideally designed for educators, academicians, researchers, and students.

This information-rich volume expands current knowledge about sexually violent predators and critiques SVP laws with the goal of fostering improvements in clinical practice and public policy. It offers a finely detailed evidence base on this

problematic class of offenders, including the complex interactions of biophysiological and environmental factors that contribute to criminal sexual behavior. Chapters discuss a wide range of assessment issues and instruments central to SVP evaluation, and the possibilities for developing interventions that address individual motivations and behaviors to reduce the risk of reoffending. And throughout, careful attention is paid to ongoing legal, ethical, and logical concerns regarding sexually violent offenders, their treatment and confinement, and their post-confinement placement. Among the topics covered:

- Civil commitment of sex offenders.
- The physiological basis of problematic sexual interests and behaviors.
- Sexually violent predator evaluations: problems and proposals.
- Cultural considerations in the assessment of sexually violent predators.
- Management of sex offenders in community settings.
- Effective use of an expert in sexually violent predator commitment hearings.

Offering numerous issues for discussion and debate with considerable implications for clinical practice, policy, and the judicial system, *Sexually Violent Predators* will interest and enlighten forensic psychologists and psychiatrists as well as social workers, policy-makers, and legal professionals.

The *Routledge Handbook of Spanish Phonology* brings together leading experts in Spanish phonology to provide a state-of-the-art survey of the field. The five sections present current research on the phonological structure of Spanish including the most prominent segmental processes, suprasegmental features, the ways Spanish phonology interacts with other modules of grammar, the acquisition of Spanish phonology by first and second language learners, and an analysis of phonological variation and sound change. This volume provides comprehensive and detailed coverage of Spanish phonology. It addresses major burning questions

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and pressing issues that have arisen in the study of Spanish phonology, and is an essential reading resource for graduate students and researchers in the field.

'Transparency' has become both a catch-word in public debate and also an important research topic. Comprised of authoritative yet accessible contributions, this Handbook surveys existing economic research on transparency and provides an up-to-date account of its meaning and significance in economic policy, market integration and regulation, and corporate governance and disclosure.

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