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Dentistry has been undergoing enormous changes, and the field of endodontics has certainly been at the forefront. Recent advances in technology, materials and equipment have changed the way endodontics is practiced today, thereby facilitating treatments with greater efficiency, precision, and success, ultimately leading to better outcomes. *Current Therapy in Endodontics* encompasses the recent discoveries and applications for this field in one clinically relevant volume.

- Evidence-based presentation of recent advances in the field of endodontics
- Objective comparison of materials and instruments on the market
- Tables present key data and instruction for quick viewing and comprehension

**About the Author**

**Priyanka Jain** has more than 15 years of clinical and teaching experience, having worked in India, UK, Qatar, and the USA. She is also the author of the book *Essentials in Dentistry*. At present, she is residing and working as a Specialist Endodontist in Dubai, UAE.
Diagnosing Dental and Orofacial Pain
A Clinical Manual
Alex J. Moule & M. Lamar Hicks
Faculty of Dentistry, Kuwait University, Kuwait; University of Maryland Dental School, USA


Know the right questions to ask when a patient comes to you in pain

Diagnosing Dental and Orofacial Pain approaches a complex topic in a uniquely practical way. It stems from the philosophy that to diagnose orofacial pain properly, a clinician needs not only to be thoroughly conversant with the particular pain states that can exist, but also know the questions to ask a patient who presents with such pain, and the confirmatory testing that then need to be carried out to confirm the diagnosis. It aims at helping the student and practitioner understand this diagnostic process, not by describing the various painful conditions, but by addressing the exact questions that need to be asked and by analyzing verbal and non-verbal responses to these.

The Manual provides:

• Hundreds of full-colour images to support the text
• A companion website with additional case studies and further tips on examination and diagnosis
• Contributions from international experts in the field of orofacial pain

Based on decades of teaching experience, Diagnosing Dental and Orofacial Pain is an ideal teaching manual for both dental and medical undergraduate and postgraduate students, but will equally serve as a reference handbook for dental, medical and allied health practitioners who are confronted with patients suffering a wide range of dental and orofacial pain problems.

About the Author

Alexander Moule (University of Kuwait) Associate Professor and Discipline Head in Endodontics at Kuwait University. Alex Moule has spent over fifteen years in full-time tenured academic positions at a number of universities and a further twenty years in honorary teaching positions at other institutions, including the University of Queensland where his current position is Associate Professor. He is familiar with the needs of dental and medical students, having for many years provided orofacial pain diagnosis lectures to students at The University of Queensland, and as an invited lecturer at other Universities, including Latrobe University in Melbourne. The material for this Manual has been obtained from observation of patients and reading during forty years in dental practice, including academic, general and government practice. During that time Dr Moule spent twenty-five years in full time endodontic practice, including 10 years as the principal and owner of a large endodontic practice, playing a regular role in diagnosing orofacial pain on a referral basis.
Clinical Investigations at a Glance
Jonathan Gleadle, Tuck Yong & Jordan Li
Flinders University and Flinders Medical Centre, Adelaide, Australia;
Consultant Physician, Adelaide, Australia; Flinders University and Flinders
Medical Centre, Adelaide, Australia

Series: At a Glance

Clinical Investigations at a Glance provides an up-to-date, evidence-based overview of diagnostic investigations, looking at their choice, importance and interpretation for commonly presenting symptoms and conditions.

Designed to help develop the evidence-based use of investigations and interpret results properly, the book provides a unique perspective on many critical issues in medical testing, with the aim of improving diagnostic accuracy and reducing unnecessary tests or harm.

Clinical Investigations at a Glance is structured in three parts: an overview of tests; common presentations (such as chest pain, nausea and vomiting, weight loss and anaemia); and conditions organized by body system, such as cardiovascular disease, respiratory disease and nephrology.

Key features include:
• How to interpret investigations, using high quality illustrations to compare normal and diseased results
• Evidence-based, including references
• How to select the most appropriate investigation, the accuracy of tests and how to manage incidental findings

About the Authors
Jonathan Gleadle is Professor of Medicine at Flinders University and Consultant Nephrologist at Flinders Medical Centre, Adelaide, Australia.
Jordan Li is Senior Lecturer at Flinders University and Consultant Physician at Flinders Medical Centre, Adelaide, Australia.
Tuck Yong is Consultant Physician, Adelaide, Australia.
Working practices for Head and Neck (HN) diagnostic and clinical teams have changed dramatically over the past 15 years with highlighted importance on specialist Multidisciplinary Teams (MDT) including radiologists and cytopathologists. To achieve high levels of diagnostic accuracy in this modern working environment, special training and commitment to cytopathology are required in addition to histopathology.

Cytopathology of the Head and Neck: Ultrasound Guided FNAC supports the learning of new skills expected of practicing pathologists by providing a comprehensive approach to cytopathology, including performing FNAC and on site interpretation. New to this edition is coverage of ultrasound (US) guidance the use of which has emerged as an essential adjunct to either Fine Needle Aspiration Cytology (FNAC) or needle core biopsy, and is expected to increase. US combined with US guided FNAC is now recommended as the investigation method of first choice for HN lesions for evaluating regional metastases in HN patients, for both those with and those without palpable lumps.

This second edition also includes:
- Expanded coverage of clinical images of head and neck masses
- Clear presentation of FNAC diagnostic features with images
- Over 200 ultrasound images and explanatory text
- Clinical management algorithms
- Examples of diagnostic of pitfalls and complications in FNAC
- Medicolegal issues in head and neck cytopathology practice

This timely book fills the training gap required for pathologists and offers a team approach to head and neck lesions, with valuable input from radiologists, ENT (ear, nose, and throat) surgeons, oncologists, and medico-legal experts. This new edition reflects the emergent multidisciplinary approach to head and neck practice.

About the Author

Dr Gabrijela Kocjan is Senior Lecturer/Honorary Consultant, Department of Cellular Pathology, University College London.
Sexual dysfunction affects men of all ages and incidence rates are expected to double by 2025 resulting in a major health burden. Though normal sexual function is an important aspect of health and well-being, sadly, this common condition still carries an associated stigma. As a result, affected men are often reluctant to approach their doctor and, instead, may live for many years with sexual dysfunction, often to the detriment of their personal lives.

Male Sexual Dysfunction: A Clinical Guide covers all the common problems encountered by the clinician in this rapidly expanding and developing field. With full color throughout, this easy-to-read guide provides a comprehensive and systematic approach to patient management. Packed with key features, every chapter contains flow diagrams and algorithms, key points, clinical pearls, “what to avoid” boxes, and numerous tables, graphs and photographs. This book provides:

• Comprehensive focus on the core clinical areas of physiology/pharmacology, investigation, diagnosis, management and surgical options
• Coverage of all treatment pathways, including psychological, pharmacologic and surgical
• A straightforward, logical approach to clinical management
• An experienced and international editor and contributor team

Expertly-written, this book is the perfect resource for urologists and general practitioners with an interest in this highly topical area, as well as those about to undergo their urology trainee examinations.

About the Authors

Suks Minhas MD, is a Consultant Urologist at UCL’s Institute of Urology specialising in andrological surgery. He is supra-regional chairman for penile cancer services at university College Hospital London and has contributed to over 200 published abstracts, papers and book chapters. Dr Minhas is Editor-in-Chief of the Journal of Sexual Medicine. Dr Minhas was chairman of the British Association of Urological Surgeons Section of Andrology and 2011 was awarded the Karl Storz Telescope award in 2011 for his outstanding contribution to the field.

John P. Mulhall, MD is Director, Male Sexual and Reproductive Medicine Program, Memorial Sloan-Kettering Cancer Center, New York, USA.
Metabolism at a Glance

4th Edition
J. G. Salway
University of Surrey

ISBN: 978-0-470-67471-0 | SEP 2016 | 208PP
Previous Edition: 978-1-405-10716-7

Metabolism at a Glance presents a concise, illustrated summary of metabolism in health and disease. This essential text is progressively appropriate for introductory through to advanced medical and biochemistry courses. It also provides a succinct review of inborn errors of metabolism, and reference for postgraduate medical practitioners and biomedical scientists who need a resource to quickly refresh their knowledge.

Fully updated and extensively illustrated, this new edition of Metabolism at a Glance is now in full colour throughout, and includes new coverage of sports biochemistry; the metabolism of lipids, carbohydrates and cholesterol; glyceroneogenesis, α-oxidation and ω-oxidation of fatty acids. It also features the overlooked “Krebs Uric Acid Cycle”.

Metabolism at a Glance offers an accessible introduction to metabolism, and is ideal as a revision aid for students preparing for undergraduate and USMLE Step 1 exams.

About the Author
Jack Salway was Senior Lecturer within the Faculty of Health and Medical Sciences at the University of Surrey until 2008.

To request review copies translationrights@wiley.com
Mentoring in Nursing and Healthcare: Supporting Career and Personal Development is an innovative look into mentoring within nursing, and its implications for career success. It provides an up-to-date review of the current research and literature within mentoring in nursing and healthcare, drawing together the distinctive challenges facing nurses and their career development. It proposes new directions and practical ways forward for the future development of formal mentoring programmes in nursing.

Offering fresh insight into mentoring principles and how these can be used beyond pre-registration nurse education to support personal career development. This is an essential book for all those commencing, continuing or returning to a nursing career.

Key features:
• Addresses mentoring as a career development tool
• Focuses on the individual benefits of being a mentee and mentor and how this can aid professional development
• Both theoretical and practical material is presented
• Features case studies throughout book
• Supports nurses to develop their careers
• It is sector specific but has transferability across disciplines
• A summary chapter draws together common threads or theoretical perspectives

The book concludes with strategies for future research and progress.

About the Authors
Helen M. Woolnough is Senior Lecturer in Psychology, Leeds Beckett University, UK.
Sandra L. Fielden is Senior Lecturer in Organisational Psychology, Manchester Business School, University of Manchester, UK.
Diseases of The Goat

John G. Matthews
Honorary Veterinary Surgeon for the British Goat Society

Previous Edition: 978-1-405-16136-7

Diseases of the Goat, 4th Edition, is a revised and updated edition of the popular tool for veterinarians featuring of all aspects of goat medicine—from initial assessment and examination to diagnosis, treatment, and control of conditions. This highly practical, concise handbook is designed for frequent reference, and is suitable for all those treating and keeping goats.

• Provides information on predators, euthanasia, post-mortem technique, and fracture repair
• Includes expanded coverage of a number of topics to appeal to a wider and more international audience especially in relation to poisonous plants
• Incorporates the impact of new developments in goat diseases, such as the geographical spread of exotic diseases into new regions

About the Author

John Matthews BSc in Biochemistry, BVMS, MRCVS, is a recently retired partner in a veterinary practice in Chelmsford, UK. He has a particular interest in caprine medicine, having kept goats for over 35 years. He is an Honorary Veterinary Surgeon for the British Goat Society and Past President of the Goat Veterinary Society.
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Kate Song  
Simplified Chinese

Feifan Li  
Bahasa Indonesian, Bahasa Malaysian, Japanese, Korean, Orthodox Chinese, Thai, Vietnamese

Sue Mattingley  
All non-Asian languages
Humanities, Social Sciences, & Teacher Education
Providing an authoritative overview of criminological research on the causes of and responses to terrorism, The Wiley Handbook to the Criminology of Terrorism offers an up-to-date reference for one of the major growth areas in social science scholarship over the past two decades.

- An authoritative resource for research that applies criminological frameworks and methods to the study of the causes of terrorism and responses to it
- Addresses major themes and controversies across seven broad areas, including etiology, theories, methods, types of terrorism, terrorism and other forms of crime, terrorism and the criminal justice system, and countering terrorism
- Focuses on criminological conceptual frameworks and empirical studies that engage terrorism and responses to it
- Includes contributions from internationally regarded experts in the field

About the Authors

Gary LaFree is Director of the National Center for the Study of Terrorism and Responses to Terrorism (START) at the University of Maryland, as well as professor in the Department of Criminology and Criminal Justice. He is co-author of Putting Terrorism in Context: Lessons Learned from Global Data (forthcoming 2014, with Laura Miller and Erin Dugan), co-editor of Democracy, Crime, and Justice (2006, The ANNALS of the American Academy of Political and Social Science Series, with Susanne Karstedt), and author of Losing Legitimacy: Street Crime And The Decline Of Social Institutions In America (1999). In addition, he has written over 70 articles and book chapters and is currently on the editorial boards of eight journals.

Joshua D. Freilich is a member of the Criminal Justice Department, and the Criminal Justice PhD Program at John Jay College, CUNY. He is the Creator and co-Director of the United States Extremist Crime Database (ECDB) study. He is the author or editor of several books, including Transnational Terrorism (2013, written with Steven Chermak), and Policing & Preventing Terrorism around the Globe (2013, edited with Shlomo Shoham). His has been published in leading journals in the fields of criminology and criminal justice, psychology and the law, and terrorism studies.
How to Reach and Teach Children and Teens with ADD/ADHD

3rd Edition

Sandra F. Rief
San Diego, California


Previous Edition: 978-0-787-97295-0

Previous editions licensed in: Hebrew, Korean, Spanish

Authors’ Previous Titles Licensed in: French, Hebrew, Japanese, Portuguese, Simplified Chinese, Spanish

The most up-to-date and comprehensive vital resource for educators seeking ADD/ADHD-supportive methods

How to Reach and Teach Children and Teens with ADD/ADHD, Third Edition is an essential guide for school personnel. Approximately 10 percent of school-aged children have ADD/ADHD—that is at least two students in every classroom. Without support and appropriate intervention, many of these students will suffer academically and socially, leaving them at risk for a variety of negative outcomes. This book serves as a comprehensive guide to understand and manage ADHD: utilizing educational methods, techniques, and accommodations to help children and teens sidestep their weaknesses and showcase their numerous strengths.

This new 2016 edition has been completely updated with the latest information about ADHD, research-validated treatments, educational laws, executive function, and subject-specific strategies. It also includes powerful case studies, intervention plans, valuable resources, and a variety of management tools to improve the academic and behavioral performance of students from kindergarten through high-school. From learning and behavioral techniques to whole group and individualized interventions, this indispensable guide is a must-have resource for every classroom—providing expert tips and strategies on reaching kids with ADHD, getting through, and bringing out their best.

- Prevent behavioral problems in the classroom and other school settings
- Increase students’ on-task behavior, work production, and academic performance
- Effectively manage challenging behaviors related to ADHD
- Improve executive function-related skills (organization, memory, time management)
- Apply specific research-based supports and interventions to enable school success
- Communicate and collaborate effectively with parents, physicians, and agencies

About the Author

Sandra F. Rief is an award-winning educator with 25+ years of experience teaching in public schools, is a nationally and internationally recognized speaker, consultant, and teacher-trainer. She specializes in instructional and behavioral strategies for meeting the needs of children with learning, attention, and behavioral challenges.
A seminal handbook in the field for more than 20 years, this new and updated edition of *Mathematics for Dyslexics and Dyscalculics* contains the latest research and best practices for helping learners with numerical and mathematical difficulties.

- Provides a complete overview of theory and research in the fields of dyslexia and dyscalculia, along with detailed yet pragmatic methods to apply in the classroom.
- Contains enhanced coverage of place value and the role of the decimal point, why fractions can challenge a developed logic for arithmetic, and the complexity of time along with new material on addressing anxiety, fear, motivation, and resilience in the classroom; and links to new resources including standardized tests and recommended reading lists.
- Written by two mathematics teachers with 50 years of teaching experience between them, much of it in specialist settings for students with specific learning difficulties.
- Offers effective teaching strategies for learners of all ages in a structured but accessible format.

**About the Authors**

**Steve Chinn** is an independent lecturer, writer, and researcher, and Visiting Professor at the University of Derby, UK. He spent twenty-four years as head teacher of three specialist schools and was a mainstream teacher for fourteen years. He has received the Marion Welchman International Award for Services to Dyslexia, and the Lady Radnor Award for Lifetime Services to Dyslexia. He has lectured and taught in over 30 countries worldwide and has spoken at many major conferences. He is the author of numerous books.

**Richard Ashcroft** was Headmaster at Mark College, UK, a specialist residential school for young people with specific learning difficulties.

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**Mathematics for Dyslexics and Dyscalculics**  
**A Teaching Handbook, 4th Edition**  
Steve Chinn, Richard Edmund Ashcroft & Richard Ashcroft  
*Mark College, Somerset; Imperial College, London, UK*

**ISBN:** 978-1-119-15996-4 | OCT 2016 | 352PP  
**Previous Edition:** 978-0-470-02692-2
The most trusted guide to school culture, updated with current challenges and new solutions

*Shaping School Culture* is the classic guide to exceptional school leadership, featuring concrete guidance on influencing the subtle symbolic features of schools that provide meaning, belief, and faith. Written by renowned experts in the area of school culture, this book tackles the increasing challenges facing public schools and provides clear, candid suggestions for more effective symbolic leadership. This new third edition has been revised to reflect the reality of schools today, including the increased emphasis on high-stakes testing, federal reforms such as No Child Left Behind (NCLB) and Every Student Can Succeed (ESCS), state-sponsored improvement programs, and other major issues that impact organizational culture and the role of school leaders. Each chapter features new examples and cases that illustrate persistent problems, spelling out key cultural implications and offering concrete examples of overcoming the challenges while maintaining a meaningful learning environment. The chapter on toxic schools continues to provide the field’s most trusted advice on navigating this rocky terrain, and the discussion’s focus on how to manage negativity remains especially integral to besieged school administrators across the U.S.

**About the Authors**

**Terrence E. Deal** is the author or co-author of more than 30 books on leadership, including Reframing Organizations, Leading with Soul, and The Leadership Paradox. A widely known expert on organizational culture, he consults to educational, business, healthcare, and religious organizations nationally and internationally.

**Kent D. Peterson** is a professor at University of Wisconsin. Peterson consults and trains on school leadership and organizational change around the world.
The must-have companion workbook to the bestselling *Teach Like a Champion 2.0*

Just like *Teach Like a Champion Field Guide* helped educators put the original 49 techniques into practice, *Field Guide 2.0* is the ultimate resource for the 62 techniques in *Teach Like a Champion 2.0*. They’re the most rigorous, champion-vetted techniques yet and this book takes you through them from top to bottom with the kind of clarity and breadth you’ve come to expect from the experts at *Teach Like a Champion*. The book includes:

- Practical approaches to each of the 62 techniques
- 75+ video clips with analysis of the techniques in play in the classroom
- Hands-on activities to bring the 62 techniques from the page into the classroom

*Teach Like a Champion 2.0* is a book by educators for educators. It’s about giving teachers what they need to share their strengths so that every teacher, from first-year rookie to third-year veteran, can approach their classes with the skills they need for their students to succeed. *Teach Like a Champion Field Guide 2.0* is the indispensable guide to getting there, one technique at a time.

**About the Authors**

Doug Lemov is a managing director of Uncommon Schools and leads its Teach Like a Champion team, designing and implementing teacher training based on the study of high-performing teachers.

Jennifer Kim and Joaquin Hernandez are both associate directors of professional development at Uncommon Schools.
This state-of-the-art resource brings together the most innovative scholars and thinkers in the field of testing to capture the changing conceptual, methodological, and applied landscape of cognitively-grounded educational assessments.

- Offers a methodologically-rigorous review of cognitive and learning sciences models for testing purposes, as well as the latest statistical and technological know-how for designing, scoring, and interpreting results
- Written by an international team of contributors at the cutting-edge of cognitive psychology and educational measurement under the editorship of a research director at the Educational Testing Service and an esteemed professor of educational psychology at the University of Alberta as well as supported by an expert advisory board
- Covers conceptual frameworks, modern methodologies, and applied topics, in a style and at a level of technical detail that will appeal to a wide range of readers from both applied and scientific backgrounds
- Considers emerging topics in cognitively-grounded assessment, including applications of emerging socio-cognitive models, cognitive models for human and automated scoring, and various innovative virtual performance assessments

About the Authors

Andre A. Rupp is Research Director at Educational Testing Service (ETS) in Princeton, NJ, where he works with teams that conduct comprehensive evaluation work for mature and emerging automated scoring systems. He is co-author of Diagnostic Measurement: Theory, Methods, and Applications (2010).

Jacqueline P. Leighton is Professor and Chair of Educational Psychology at the University of Alberta, Canada. She is past Director of the University of Alberta’s Centre for Research in Applied Measurement and Evaluation (CRAME). She has published in a variety of educational measurement journals and is past editor of Educational Measurement: Issues and Practice. She is co-author of The Learning Sciences in Educational Assessment (2011) and Cognitive Diagnostic Assessment for Education: Theory and Applications (2007) and co-editor of The Nature of Reasoning (2004).
The International Handbook of Suicide Prevention
2nd Edition
Rory O’Connor & Jane Pirkis
University of Glasgow, UK; Jane Pirkis, University of Melbourne, Australia

ISBN: 978-1-118-90327-8 | OCT 2016 | 800PP

The International Handbook of Suicide Prevention, 2nd Edition, presents a series of readings that consider the individual and societal factors that lead to suicide, it addresses ways these factors may be mitigated, and presents the most up-to-date evidence for effective suicide prevention approaches.

- An updated reference that shows why effective suicide prevention can only be achieved by understanding the many reasons why people choose to end their lives
- Gathers together contributions from more than 100 of the world’s leading authorities on suicidal behavior—many of them new to this edition
- Considers suicide from epidemiological, psychological, clinical, sociological, and neurobiological perspectives, providing a holistic understanding of the subject
- Describes the most up-to-date, evidence-based research and practice from across the globe, and explores its implications across countries, cultures, and the lifespan

About the Authors
Rory O’Connor is Professor of Health Psychology at the University of Glasgow and Past President of the International Academy of Suicide Research. O’Connor leads the Suicidal Behaviour Research Laboratory at Glasgow, one of the leading suicide and self-harm research groups in the UK. He has published extensively in the field of suicide and self-harm, and is also Deputy Chief Editor of Archives of Suicide Research, an Associate Editor of Suicide and Life-Threatening Behavior, and a member of the editorial board of Crisis.

Jane Pirkis is the Director of the Centre for Mental Health in the Melbourne School of Population and Global Health at the University of Melbourne, and General Secretary of the International Association for Suicide Prevention. She has published extensively on suicide and its prevention.

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The Wiley-Blackwell Companion to Christian Mysticism
Julia A. Lamm
Georgetown University, USA

Series: Wiley Blackwell Companions to Religion

The Wiley-Blackwell Companion to Christian Mysticism brings together a team of leading international scholars to explore the origins, evolution, and contemporary debates relating to Christian mystics, texts, and the movements they inspired.

- Provides a comprehensive and engaging account of Christian mysticism, from its origins right up to the present day
- Draws on the best of current scholarship by bringing together a collection of newly-commissioned readings by leading scholars
- Considers examples of mysticism in both Eastern and Western Christianity
- Offers a brilliant synthesis of the key figures and historical periods of mysticism; its core themes, such as heresy, gender, or aesthetics; and its theoretical considerations, including theological, literary, social scientific, and philosophical approaches
- Features chapters on current debates such as neuroscience and mystical experience, and inter-religious dialogue

About the Author
Julia A. Lamm is Associate Professor of Theology at Georgetown University in Washington, D.C. She is a recipient of an Alexander von Humboldt Fellowship for research at the Academy of Sciences in Berlin. She is also the author of The Living God: Schleiermacher’s Theological Appropriation of Spinoza (1996) and co-editor of a forthcoming volume on Schleiermacher, The Christmas Dialogue and Other Selections. She has also published articles on Julian of Norwich.
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Feifan Li
- Bahasa Indonesian, Bahasa Malaysian, Japanese, Korean, Orthodox Chinese, Thai, Vietnamese
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The Seafood and Aquaculture Marketing Handbook is an expanded and revised new edition of the Aquaculture Marketing Handbook, originally published in 2009. Written by three authors with vast international experience, the Seafood and Aquaculture Marketing Handbook is an important introduction to aquaculture and seafood marketing for those interested in the subject and those new to the professional field. The body of commercially important knowledge presented in this book will also make it a valuable reference for even the most experienced aquaculture and seafood trade professionals. Libraries in all universities and research establishments where aquaculture, fisheries, economics and marketing, and food science technologies are studied and taught should have copies of this important book.

About the Authors


Kwamena Quagraunie is Professor and Aquaculture Marketing Director in the Department of Agricultural Economics, Purdue University and co-authored the Aquaculture Marketing Handbook.

Madan Dey is Professor of Aquaculture Economics and Marketing, at the Aquaculture/Fisheries Center, University of Arkansas at Pine Bluff.
Seismic inversion aims to reconstruct a quantitative model of the Earth subsurface, by solving an inverse problem based on seismic measurements. There are at least three fundamental issues to be solved simultaneously: non-linearity, non-uniqueness, and instability. This book covers the basic theory and techniques used in seismic inversion, corresponding to these three issues, emphasising the physical interpretation of theoretical concepts and practical solutions.

This book is written for masters and doctoral students who need to understand the mathematical tools and the engineering aspects of the inverse problem needed to obtain geophysically meaningful solutions. Building on the basic theory of linear inverse problems, the methodologies of seismic inversion are explained in detail, including ray-impedance inversion and waveform tomography etc. The application methodologies are categorised into convolutional and wave-equation based groups. This systematic presentation simplifies the subject and enables an in-depth understanding of seismic inversion.

This book also provides a practical guide to reservoir geophysicists who are attempting quantitative reservoir characterisation based on seismic data. Philosophically, the seismic inverse problem allows for a range of possible solutions, but the techniques described herein enable geophysicists to exclude models that cannot satisfy the available data. This book summarises the author’s extensive experience in both industry and academia, and includes innovative techniques not previously published.

About the Author

Yanghua Wang is a Professor at Imperial College London and has held the position of Director of the Centre for Reservoir Geophysics since 2004. He is a founding editor of the Journal of Geophysics and Engineering. He is also a Fellow of the Institute of Physics (FIntP) and a Fellow of the Royal Astronomical Society (FRAS).
The book aims to integrate our understanding of mammalian societies into a novel synthesis that is relevant to behavioural ecologists, ecologists, and anthropologists. It adopts a coherent structure that deals initially with the characteristics and strategies of females, before covering those of males, cooperative societies and hominid societies. It reviews our current understanding both of the structure of societies and of the strategies of individuals; it combines coverage of relevant areas of theory with coverage of interspecific comparisons, intraspecific comparisons and experiments; it explores both evolutionary causes of different traits and their ecological consequences; and it integrates research on different groups of mammals with research on primates and humans and attempts to put research on human societies into a broader perspective.

About the Author
Professor Tim Clutton-Brock is one of the world’s leading zoologists. As of 2008, he was the Prince Philip Professor of Ecology and Evolutionary Biology, and head of the Large Animal Research Group at the Department of Zoology of the University of Cambridge, and a fellow of Magdalene College, Cambridge. He also holds extraordinary professorships in the Department of Zoology and Entomology and the Mammal Research Institute of the University of Pretoria, South Africa. He was elected a Fellow of the Royal Society in 1987. He is an ISI Highly Cited researcher. He won the 1997 Frink Medal of the Zoological Society of London. In 2012, he was awarded the Darwin Medal from the Royal Society for his work on the diversity of animal societies and demonstration of their effects on the evolution of reproductive strategies, and the operation of selection and the dynamics of populations. Professor Clutton-Brock’s early work was on social behaviour in primates. Much of his recent work focuses on three long-term studies: of red deer on the Scottish island of Rùm, of Soay sheep on St Kilda, and of meerkats in the southern Kalahari. He is one of the founders of the Kalahari Meerkat Project, the subjects of which are featured in the television programme Meerkat Manor, and the BBC’s Natural World series.
Forensic medicine is a broad and evolving field with areas of rapid progress embracing both clinical and pathological aspects of practice, in which there may be considerable overlap. This is the second volume in a series that provides a unique, in-depth and critical update on selected topics of direct relevance to those practising in the field of clinical forensic medicine and related areas including lawyers, police, medical practitioners, forensic scientists, and students. The book endeavours to maintain a relevance to an international, multiprofessional audience and include chapters on DNA decontamination, the toxicity of novel psychoactive substances, the relevance of gastric contents in the timing of death, the effects of controlled energy devices, the main risk factors for driving impairment, the risk factors for harm to health of detainees in short-term custody, autoerotic deaths, child maltreatment and neglect, and the investigation of potential non-accidental head injury in children. Also included are chapters on excited delirium syndrome, automatism and personality disorders. Two topics not generally covered in standard clinical forensic medical textbooks include a forensic anthropological approach to body recovery in potential crimes against humanity and risk management and security issues for the forensic practitioner investigating potential crimes against humanity in a foreign country.

About the Authors

Dr John Gall is a consultant forensic physician. He is Director of Southern Medical Services Pty Ltd; Associate Professor in the Department of Paediatrics at The University of Melbourne; Consultant at the Victorian Forensic Paediatric Medical Service at the Royal Children’s Hospital and Monash Medical Centre; President of the World Police Medical Officers; and Vice-President of the Australasian Association of Forensic Physicians.

Jason Payne-James is a Consultant Forensic Physician Honorary Senior Lecturer at the Cameron Forensic Medical Sciences, Barts and the London SMD; President at the Faculty of Forensic and Director of Forensic Healthcare Services Ltd.
The interpretation and evaluation of scientific evidence and its presentation in a court of law is central both to the role of the forensic scientist as an expert witness and to the interests of justice. This book provides a thorough and detailed discussion of the principles and practice of evidence interpretation and evaluation by using real cases by way of illustration. The presentation is appropriate for students of forensic science or related disciplines at advanced undergraduate and master’s level or for practitioners engaged in continuing professional development activity.

About the Author

Craig Adam is based at the School of Physical and Geographical Sciences, Keele University, Keele, UK. He has been involved in forensic science education and research for almost fifteen years while working at Keele University. Originally a physicist by training, he has particular interests in the mathematical and statistical aspects of the discipline, in addition to his research on the physicochemical characterisation of forensic materials, document analysis and blood dynamics. He has published across all these areas, including the textbook Essential Mathematics and Statistics for Forensic Science, available from Wiley-Blackwell. He has extensive experience in developing teaching resources across the spectrum of forensic science and, over recent years, has focused on the interface between science and the court. This has led him to explore the legal, scientific and statistical perspectives driving the evolution of the crucial step in the progress of scientific evidence from the crime scene through the legal debate to its influence on the ultimate decision by the court.
This cutting-edge, interdisciplinary volume describes established and state of the art approaches for exploring the pathways that influence and control appetite, including: behavioural, electrophysiological, neuroanatomical, gene knockout and pharmacological techniques.

The book presents key peptide and neurotransmitter systems, together with newly emerging concepts of metabolic signalling and hypothalamic inflammation. The impact of early life experience on neuroendocrine appetite circuits is also looked at, including early programming of these circuits by circulating hormones. Finally, new emerging therapeutic approaches to appetite suppression are discussed, including those linked to bariatric (weight loss) surgery.

*Neuroendocrinology of Appetite* is especially focused on established and emerging technologies and approaches for investigating appetite control. It is written so as to provide an overview of sufficient depth for an undergraduate or new scientist in the field to come up to speed in the complementary approaches used by researchers in this field. Taking an interdisciplinary approach, the book aims to appeal to all those with a basic, clinical or therapeutic interest in research into obesity and eating disorders.

**About the Authors**

Professor **Suzanne L Dickson**, The Sahlgrenska Academy of the University of Gothenberg, Sweden.

Professor **Julian G. Mercer**, Rowett Institute of Nutrition and Health, University of Aberdeen, UK.
This volume discusses the role of the microbiota in maintaining human health and introduces the reader to the biology of bacterial dysbiosis and its potential role in both bacterial disease and in idiopathic chronic disease states. The book is divided into five chapters, starting from the concept of the human bacterial microbiota with particular attention being paid to the microbiota of the gut, oral cavity and skin. A key methodology for exploring the microbiota, metagenomics, is also described. The second section attempts to show the reader the cellular, molecular and genetic complexities of the bacterial microbiota, its myriad connections with the host and how these can maintain tissue homeostasis. Section 3 begins to consider the role of dysbioses in human disease states, dealing with two of the commonest bacterial diseases of humanity—periodontitis and bacterial vaginosis. The composition of some, if not all microbiotas can be controlled by the diet and this is also dealt with in this section. In section 4 the discussion moves onto the major ‘idiopathic’ diseases of *Homo sapiens* and the potential role that dysbiosis could play in their induction and chronicity. This is a rapidly growing area where major discoveries are expected. Section 5 takes the reader to the therapeutic potential of manipulating the microbiota, introducing the concepts of probiotics, prebiotics and the administration of healthy human faeces (*faecal microbiota transplantation*), and imagines the future of medical treatment viewed from a microbiota-centric position.

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Physical Sciences, Engineering & Construction
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Authored by two internationally recognized experts with an excellent track record, this much-needed reference summarizes latest research in the rapidly developing field of stereoselective synthesis of enantiomerically enriched amino acids, particularly of non-proteinogenic origin. It highlights several different catalytic and stoichiometric asymmetric methods for their synthesis and also provides information on origin, biological properties, different synthetic strategies and important applications in medicine and pharmacology. Essential reading for synthetic chemists working in the field of asymmetric synthesis, natural products and peptide synthesis, stereochemistry, medicinal chemistry, biochemistry, pharmacology, and biotechnology.

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Chirality in Supramolecular Assemblies: Causes and Consequences
Richard Keene

ISBN: 978-1-118-86734-1 | SEP 2016 | 300PP

Chirality in Supramolecular Assemblies: Causes and Consequences presents a broad overview of this important and rapidly developing interdisciplinary field. The book begins with an introduction to fundamental principles, followed by comprehensive coverage of recent developments in synthesis and applications of supramolecular chirality across inorganic, organometallic, organic and biological chemistry.

The book is divided into three sections as follows:
Fundamentals: A general treatment of the principles, including an introduction to molecular and topological chirality, the origins of homochirality, the nature and potential complexity of supramolecular assemblies, and the concept of molecular recognition.
Inorganic/Organometallic Systems: Covers the solution phase (including molecular devices and machines), the solid state (including network solids and coordination polymers), and surfaces/interfaces (including chiral separations and chiral catalysis).
Organic/biological systems: Covers six classes of compounds; cucurbiturils; cyclodextrins; calixarenes; synthetic peptides, crown ethers and cyclophanes; micelles and nanoparticles; proteins and other biological macromolecules. For each class of compound there is a discussion of molecular recognition/selective binding and catalysis.

About the Author
Emeritus Professor F. Richard Keene Adjunct Professor of Chemistry, School of Pharmacy & Molecular Sciences, James Cook University, Australia and Department of Chemistry, University of Canterbury, New Zealand). Honorary Visiting Research Fellow, School of Chemistry & Physics, University of Adelaide. Richard Keene is an acknowledged international authority on stereochemistry in coordination chemistry - and significantly, in the control of stereochemistry within polymetallic supramolecular assemblies - and has over the last decade has published widely on (i) its effect on intramolecular electron and energy transfer in such assemblies, and (ii) its influence on sequence- and structure-selectivity in the interaction of such complexes with nucleic acids, and their cytotoxicity to cancer cells and bacteria. He has over 160 publications (h-index 44), as well 6 chapters in monographs and a patent.
This book describes self-assembly techniques in the synthesis of biomolecules for developing new compounds and improving functionality of existing ones. Because self-assembly emulates how nature creates molecules, they likely have the best chance at succeeding in real-world biomedical applications.

- Employs synthetic chemistry, physical chemistry, and materials science principles and techniques
- Emphasizes self-assembly in solutions (particularly, aqueous solutions) and at solid-liquid interfaces
- Describes polymer assembly driven by multitude interactions, including solvophobic, electrostatic, and obligatory co-assembly
- Reviews principles of cross-scale hierarchical assembly
- Illustrates assembly of bio-hybrid macromolecules and applications in biomedical engineering

About the Authors

Laurent Billon is research director the Interdisciplinary Institute of Environmental and Material Research (IPREM) in Pau, France. He is the author of over 150 scientific publications and has received the Friedrich Wilhelm Bessel Research Award (2004) from the Alexander von Humboldt Foundation. He graduated from Department of Chemistry of University of Bordeaux and in 1996 he has received his PhD in Polymer Chemistry from Pau University (France). After two postdoc positions at Rhone-Poulenc and ARKEMA (USA), he joined Pau University as Associate Professor. In 2010, he was promoted Full Professor and Deputy Director of the Interdisciplinary Institute of Environmental and Material Research (IPREM, Pau). Billon is author of over 80 scientific papers and 5 patents.

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A reference on drug metabolism and metabolite safety in the development phase, this book reviews the analytical techniques and experimental designs critical for metabolite studies. It features case studies of lessons learned and real world examples, along with regulatory perspectives from the US FDA and EMA.

- Reviews the analytical techniques and experimental designs critical for metabolite studies
- Covers methods including chirality, species differences, mass spectrometry, radiolabels, and in vitro / in vivo correlation
- Discusses target pharmacology, in vitro systems aligned to toxicity tests, and drug-drug interactions
- Includes perspectives from authors with firsthand involvement in industry and the study of drug metabolites, including viewpoints that have influenced regulatory guidelines

About the Authors

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The aim of this book is to improve awareness of the increasingly important role metals play in our high-tech society, the need to conserve our metal supply throughout the metal life cycle through application of green chemistry principles, the importance of improved metal recycling, and the dire effects that unhindered metal loss can have on the environment and on human health. The material presented will be useful to scientists, engineers, and other researchers in the field; policy makers as they consider alternatives; companies as they make key decisions that impact how metals are used and how products and processes can be optimized to enhance recycling, and the press/media as they communicate with the public.

About the Author

Dr. Reed M. Izatt, Charles E. Maw Professor of Chemistry (Emeritus), Brigham, Young University, U.S.A. He is the author or co-author of over 550 publications and has presented plenary, invited, and regular lectures on the subject of selective metal separations at universities worldwide; regional, national, and international chemistry conferences; and government laboratories.
The first book to aid in the understanding of the subject Multiconfigurational Quantum Chemistry demystifies a subject that has historically been considered difficult to learn. Accessible to any reader with a background in quantum mechanics and quantum chemistry, the book contains illustrative examples showing how these methods can be used in various areas of chemistry, such as chemical reactions in ground and excited states, transition metal and other heavy element systems. The authors detail the drawbacks and limitations of DFT and coupled-cluster based methods and offer alternative, wavefunction-based methods more suitable for smaller molecules.

**About the Author**

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Operational Safety Economics
A practical approach focused on the Chemical and Process Industries
Genserik L. Reniers
Universiteit Antwerpen, Belgium

ISBN: 978-1-118-87112-6 | OCT 2016 | 344PP

Describes how to make economic decisions regarding safety in the chemical and process industries
• Covers both technical risk assessment and economic aspects of safety decision-making
• Suitable for both academic researchers and practitioners in industry
• Addresses cost-benefit analysis for safety investments

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Harmonic Balance Finite Element Method
Applications in Nonlinear Electromagnetics and Power Systems
Junwei Lu, Xiaojun Zhao & Sotoshi Yamada


The first book applying HBFEM to practical electronic nonlinear field and circuit problems

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Impedance Source Power Electronic Converters brings together state-of-the-art knowledge and cutting-edge techniques in various stages of research related to the ever more popular impedance source converters/inverters. Highly accessible, this is an invaluable resource for researchers, postgraduate/graduate students studying power electronics and its application in industry and renewable energy conversion as well as practising R&D engineers. Readers will be able to apply the presented material for the future design of the next generation of efficient power electronic converters/inverters.

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Optimization and Business Improvement Studies in Upstream Oil and Gas Industry
Sanjib Chowdhury

Series: Wiley Series on O&G Technology

Optimization and Business Improvement Studies in Upstream Oil and Gas Industry contains eleven real-life optimization and business improvement studies that delve into the core exploration and production activities and functional areas covering a wide range of operations and processes. It uses various quantitative and qualitative techniques, such as Linear Programming, Queuing theory, Critical Path Analysis, Economic analysis, Best Practices Benchmark, Business Process Simplification etc. to optimize.

The book will be of immense interest to practicing managers, professionals and employees at all levels/disciplines in oil and gas industry. It will also be useful to academicians, scholars, educational institutes, energy research institutes, and consultants dealing with oil and gas. The work can be used as a practical guide to upstream professionals and students in petroleum engineering programs.

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Sanjib Chowdhury is working in a major oil company and has over thirty years of experience in cross-functional areas of Strategic and Corporate Planning, Optimization and Business Improvement, HR and General Management in Upstream sector. He has held responsible positions and carried out many impressive work and studies in these areas - this book is a testimony of that. He holds B.Tech, M.Tech., and Ph.D. degrees in Industrial Engineering & Management all from Indian Institute of Technology, Kharagpur, and published several technical papers in journals of repute.
Filling the gap between publications for industrial developers and academic researchers on graphene synthesis and its applications, this book presents the essential aspects for the successful upscaling of graphene production. After an introduction to graphene, its synthesis and characterization, the text covers a wide variety of graphene composites and compounds. The larger part of the book discusses various applications where graphene has been successfully integrated into technologies, including uses in the energy sector, oil and gas industry, biomedical areas, sensors and coatings. Finally, the book concludes with a summary and a look at the future of graphene technology, including a market review.

With its focus on applications, this is equally useful for both academic and industrial users.

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Presents a fully interdisciplinary approach with a stronger emphasis on polymers and composites than traditional materials books

Materials science and engineering is an interdisciplinary field involving the properties of matter and its applications to various areas of science and engineering. Polymer materials are often mixed with inorganic materials to enhance their mechanical, electrical, thermal, and physical properties. Materials: Introduction and Applications addresses a gap in the existing textbooks on materials science.

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This new title in the well-established “Quantitative Network Biology” series includes innovative and existing methods for analyzing network data in such areas as network biology and chemoinformatics.

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Presents an introduction to differential equations, probability, and stochastic processes with real-world applications of queues with delay and delayed network queues

Featuring recent advances in queueing theory and modeling, *Delayed and Network Queues* provides the most up-to-date theories in queueing model applications. Balancing both theoretical and practical applications of queueing theory, the book introduces queueing network models as tools to assist in the answering of questions on cost and performance that arise throughout the life of a computer system and signal processing. Written by well-known researchers in the field, the book presents key information for understanding the essential aspects of queues with delay and networks of queues with unreliable nodes and vacationing servers. *Delayed and Network Queues* is an excellent textbook for upper-undergraduate and graduate-level courses in applied mathematics, queueing theory, queueing systems, probability and statistics, and stochastic processes. The book is also an ideal reference for academics and practitioners in mathematical sciences, biomathematics, operations research, management, engineering, physics, business, economics, health industry, and industrial engineering.

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Extreme Events in Finance
A Handbook of Extreme Value Theory and its Applications
Francois Longin

Series: Wiley Handbooks in Financial Engineering and Econometrics
ISBN: 978-1-118-65019-6 | SEP 2016 | 632PP

A guide to the growing importance of extreme value risk theory, methods, and applications in the financial sector

Presenting a uniquely accessible guide, Extreme Events in Finance: A Handbook of Extreme Value Theory and its Applications features a combination of the theory, methods, and applications of extreme value theory (EVT) in finance, as well as a practical understanding of market behavior including both ordinary and extraordinary conditions.

Beginning with a fascinating history of EVTs and financials modeling, the handbook introduces the historical implications that resulted in the applications and then clearly examines the fundamental results of EVT in finance. After dealing with these theoretical results, the handbook focuses on the EVT methods critical for data analysis. Finally, the handbook features the practical applications and techniques, and how these can be implemented in financial markets.

The book is a valuable reference for practitioners in financial markets such as financial institutions, investment funds, and corporate treasuries, financial engineers, quantitative analysts, regulators, risk managers, large-scale consultancy groups, and insurers. Extreme Events in Finance: A Handbook of Extreme Value Theory and its Applications is also a useful textbook for postgraduate courses on the methodology of EVTs in finance.

About the Author
François Longin is Professor in the Department of Finance at ESSEC Business School, France. His research works can be found in scientific journals such as The Journal of Finance. Dr. Longin is currently a financial consultant with expertise covering risk management for financial institutions and portfolio management for asset management firms.
A must-have text for risk modelling and portfolio optimization using R.

This book introduces the latest techniques advocated for measuring financial market risk and portfolio optimization, and provides a plethora of R code examples that enable the reader to replicate the results featured throughout the book. This edition has been extensively revised to include new topics on risk surfaces and probabilistic utility optimization as well as an extended introduction to R language.

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- Is accompanied by a supporting website featuring examples and case studies in R
- Includes updated list of R packages for enabling the reader to replicate the results in the book

Graduate and postgraduate students in finance, economics, risk management as well as practitioners in finance and portfolio optimization will find this book beneficial. It also serves well as an accompanying text in computer-lab classes and is therefore suitable for self-study.

**About the Author**

*Bernhard Eugen Heinrich Pfaff*, Director, Invesco Asset Management Deutschland GmbH, Germany.
Written in a clear, precise and user-friendly style, Logic as a Tool: A Guide to Formal Logical Reasoning is intended for undergraduates in both mathematics and computer science, and will guide them to learn, understand and master the use of classical logic as a tool for doing correct reasoning. It offers a systematic and precise exposition of classical logic with many examples and exercises, and only the necessary minimum of theory.

The book explains the grammar, semantics and use of classical logical languages and teaches the reader how to grasp their meaning and translate them to and from natural language. It illustrates with extensive examples the use of the most popular deductive systems — axiomatic systems, semantic tableaux, natural deduction, and resolution — for formalising and automating logical reasoning both on propositional and on first-order level, and provides the reader with technical skills needed for practical derivations in them. Systematic guidelines are offered on how to perform logically correct and well-structured reasoning using these deductive systems and the reasoning techniques that they employ.

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- Solid and balanced coverage of syntactic, semantic, and deductive aspects of logic
- Includes extensive sets of exercises, many of them provided with solutions or answers
- Supplemented by a website including detailed slides, additional exercises and solutions

About the Author

Valentin Goranko is an associate professor at the Department of Applied Mathematics and Computer Science of the Technical University of Denmark. He has had over 25 years of University teaching and research experience: in particular, he has taught several courses partly based on this book.
This latest addition to the successful *Network Biology* series presents current methods for determining the entropy of networks, making it the first to cover the recently established Quantitative Graph Theory.

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Filling a gap in the contemporary literature this is an invaluable reference for a number of disciplines, including mathematicians, computer scientists, computational biologists, and structural chemists.

**About the Authors**

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Research Methods for Postgraduates brings together guidance for postgraduate students on how to organise, plan and do research from an interdisciplinary perspective. In this new edition, the already wide-ranging coverage is enhanced by the addition of new chapters on social media, evaluating the research process, Kansei engineering and medical research reporting. The extensive updates also provide the latest guidance on issues relevant to postgraduates in all subject areas, from writing a proposal and securing research funds, to data analysis and the presentation of research, through to intellectual property protection and career opportunities.

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Like its predecessors, the third edition of Research Methods for Postgraduates is accessible and comprehensive, and is a must-read for any postgraduate student.

About the Author

Tony Greenfield, is a visiting professor to the Industrial Statistics Research Unit (ISRU), the University of Newcastle-upon-Tyne and is past President of ENBIS, (European Network for Business and Industrial Statistics). He is a fellow of the Royal Statistical of the Royal Statistical Society and a Chartered Statistician. Tony received the William G Hunter Award presented by the Statistics Division of the American Society for Quality (ASQ). The citation reads: “For excellence in statistics as a communicator, a consultant, an educator, an innovator, an integrator of statistics with other disciplines, and an implementer who obtains meaningful results.”
This book presents material on both the analysis of the classical concepts of correlation and on the development of their robust versions, as well as discussing the related concepts of correlation matrices, partial correlation, canonical correlation, rank correlations, with the corresponding robust and non-robust estimation procedures. Every chapter contains a set of examples with simulated and real-life data.

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• Focuses on implementation of methodology and application of robust correlation with R

• Introduces the main approaches in robust statistics, such as Hubers minimax approach and Hampels approach based on influence functions

• Explores various robust estimates of the correlation coefficient including the minimax variance and bias estimates as well as the most B- and V-robust estimates

• Contains applications of robust correlation methods to exploratory data analysis, multivariate statistics, statistics of time series, and to real-life data

• Includes an accompanying website featuring computer code and datasets

• Features exercises and examples throughout the text using both small and large data sets

Theoretical and applied statisticians, specialists in multivariate statistics, robust statistics, robust time series analysis, data analysis and signal processing will benefit from this book. Practitioners who use correlation-based methods in their work as well as postgraduate students in statistics will also find this book useful.

About the Authors

Georgy L. Shevlyakov, Department of Applied Mathematics, St. Petersburg State Polytechnic University, Russia.

Hannu Oja, School of Health Sciences, University of Tampere, Finland.
A thoroughly revised and updated edition of this introduction to modern statistical methods for shape analysis

Shape analysis is an important tool in the many disciplines where objects are compared using geometrical features. Examples include comparing brain shape in schizophrenia; investigating protein molecules in bioinformatics; and describing growth of organisms in biology.

This book is a significant update of the highly-regarded *Statistical Shape Analysis* by the same authors. The new edition lays the foundations of landmark shape analysis, including geometrical concepts and statistical techniques, and extends to include analysis of curves, surfaces, images and other types of object data. Key definitions and concepts are discussed throughout, and the relative merits of different approaches are presented.

The authors have included substantial new material on recent statistical developments and offer numerous examples throughout the text. Concepts are introduced in an accessible manner, while retaining sufficient detail for more specialist statisticians to appreciate the challenges and opportunities of this new field. Computer code has been included for instructional use, along with exercises to enable readers to implement the applications themselves in R and to follow the key ideas by hands-on analysis.

*Statistical Shape Analysis: with Applications in R* will offer a valuable introduction to this fast-moving research area for statisticians and other applied scientists working in diverse areas, including archaeology, bioinformatics, biology, chemistry, computer science, medicine, morphometrics and image analysis.

About the Authors

**Ian L. Dryden** is a Professor at The School of Mathematical Sciences, University of Nottingham.

**Kanti V. Mardia** is Professor Emeritus of The School of Mathematical Sciences department at the University of Leeds. His publications comprise over three hundred articles in statistical journals and numerous books, including *Statistical Shape Analysis, Statistics of Directional Data and Multivariate Analysis*.
A comprehensive and practical resource for analyses of crossover designs

For ethical reasons, it is vital to keep the number of patients in a clinical trial as low as possible. As evidenced by extensive research publications, crossover design can be a useful and powerful tool to reduce the number of patients needed for a parallel group design in studying treatments for non-curable chronic diseases. This book introduces commonly-used and well-established statistical tests and estimators in epidemiology that can easily be applied to hypothesis testing and estimation of the relative treatment effect for various types of data scale in crossover designs. Models with distribution-free random effects are assumed and hence most approaches considered here are semi-parametric. The book provides clinicians and biostatisticians with the exact test procedures and exact interval estimators, which are applicable even when the number of patients in a crossover trial is small. Systematic discussion on sample size determination is also included, which will be a valuable resource for researchers involved in crossover trial design.

Key features:

- Provides exact test procedures and interval estimators, which are especially of use in small-sample cases
- Presents most test procedures and interval estimators in closed-forms, enabling readers to calculate them by use of a pocket calculator or commonly-used statistical packages
- Each chapter is self-contained, allowing the book to be used a reference resource
- Uses real-life examples to illustrate the practical use of test procedures and estimators
- Provides extensive exercises to help readers appreciate the underlying theory, learn other relevant test procedures and understand how to calculate the required sample size

_Crossover Designs: Testing, Estimation and Sample Size_ will be a useful resource for researchers from biostatistics, as well as pharmaceutical and clinical sciences. It can also be used as a textbook or reference for graduate students studying clinical experiments.

**About the Author**

_Kung-Jong Lui_, Professor, Department of Mathematics and Statistics, San Diego State University, USA.
This book provides a seamless presentation that identifies valuable connections between statistical applications and research design using cases, examples, and discussion of specific topics from the social and health sciences. Class-tested to ensure an accessible presentation, the book combines clear, step-by-step explanations and the use of software packages that are accessible to both the novice and professional alike to present the fundamental statistical practices for organizing, understanding, and drawing conclusions from research data in their field.

Individual chapters are devoted to specific procedures, each ending with a lab exercise that highlights the importance of that procedure by posing a research question, examining the question through its application in Excel and SPSS, and concluding with a brief research report that outlines key findings drawn from the results. Real-world examples and data from social and health sciences research are used throughout the book, and a related website features additional data sets, examples, and labs, allowing readers to reinforce their comprehension of the material.

Emphasizing applied statistical analyses, this book can serve as the primary text in undergraduate and graduate university courses within departments of sociology, psychology, urban studies, health sciences, public health, and other related departments. It will also be useful to statistics practitioners through extended sections on using Excel and SPSS for analyzing data.

**About the Author**

**Martin Lee Abbott, PhD,** is Professor of Sociology at Seattle Pacific University, where he also serves as Executive Director of the Washington School Research Center, an independent research and data analysis center funded by the Bill and Melinda Gates Foundation. Dr. Abbott has held positions in both academia and in industry, focusing his consulting and teaching in the areas of program evaluation, applied sociology, statistics, and research methods. He is the author of *Understanding Educational Statistics Using Microsoft Excel and SPSS*, *The Program Evaluation Prism: Using Statistical Methods to Discover Patterns* and *Understanding and Applying Research Design*, also from Wiley.

To request review copies translationrights@wiley.com
The book focuses on advanced characterization methods for thin-film solar cells that have proven their relevance both for academic and corporate photovoltaic research and development. After an introduction to thin-film photovoltaics, highly experienced experts report on device and materials characterization methods such as electroluminescence analysis, capacitance spectroscopy, and various microscopy methods. In the final part of the book simulation techniques are presented which are used for ab-initio calculations of relevant semiconductors and for device simulations in 1D, 2D and 3D.

Building on a proven concept, this new edition also covers thermography, transient optoelectronic methods, and absorption and photocurrent spectroscopy.

**About the Authors**

**Daniel Abou-Ras** is senior scientist at the Helmholtz Center Berlin for Materials and Energy, Germany. He obtained his PhD at ETH Zurich, Switzerland. In 2005, he was awarded the MRS Graduate Student Gold Award at the MRS Spring Meeting. His research interests are scanning as well as transmission electron microscopy techniques applied on thin-film solar cells.

**Thomas Kirchartz** is scientist at the Institute of Energy at the Research Center Jülich, Germany. He obtained his engineering degree from the University of Stuttgart for a work on the electroluminescence of solar cells in 2006 and his PhD from the RWTH Aachen in 2009 for a work on a detailed balance theory of solar cells.

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