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# Life Sciences P1 November 2013

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## **WALKER ELLEN**

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### **Our Sexuality** CRC Press

Statistical Power Analysis is a nontechnical guide to power analysis in research planning that provides users of applied statistics with the tools they need for more effective analysis. The Second Edition includes: \* a chapter covering power analysis in set correlation and multivariate methods; \* a chapter considering effect size, psychometric reliability, and the efficacy of "qualifying" dependent variables and; \* expanded power and sample size tables for multiple regression/correlation.

### **Geoscience for the Public Good and**

**Global Development** eBook Partnership  
Service Life Prediction of Polymers and Coatings: Enhanced Methods focuses on the cutting-edge science behind how plastic and polymer materials are modified by the effects of weathering, offering the latest advances in service life prediction methods. The chapters have been developed by experts based on their contributions as part of the 7th Service Life Prediction Meeting. The volume begins with the premise that it is possible to produce and design life predictions, also looking at how these predictions can be used. Subsequent chapters present new developments in service life prediction, examining the most important considerations in SLP design, timescales, and other major issues. The book also considers the current state of the field in

terms of both accomplishments and areas that require significant research going forward. This is a highly valuable reference for engineers, designers, technicians, scientists and R&D professionals who are looking to develop materials, components or products for outdoor applications across a range of industries. The book also supports academic researchers, scientists and advanced students with an interest in service life, the effects of weathering, material degradation, failure analysis, or sustainability across the fields of plastics engineering, polymer science and materials science. Presents novel prediction techniques for plastics and polymers exposed to outdoor weathering Provides a consensus roadmap on the scientific barriers related to a validated, predictive model for the response of

polymer and plastics to outdoor exposure  
Enables the reader to assess and compare  
different methods and approaches to  
service life prediction

*Advances in Gammaproteobacteria  
Research and Application: 2013 Edition*  
Frontiers Media SA

Water protection, food production and  
ecosystem health are worldwide issues.  
Changes in the global water cycle are  
affecting human well-being in many  
places, while widespread land and  
ecosystem degradation, driven by poor  
agricultural practices, is seriously limiting  
food production. Understanding the links  
between ecosystems, water, and food  
production is important to the health of all  
three, and sustainably managing these  
connections is becoming increasingly  
necessary. This book shows how  
sustainable ecosystems, especially  
agroecosystems, are essential for water  
management and food production.

*Regenerative Medicine Ethics* CABI  
Brings Together Current Knowledge and  
State-of-the-Art Information on Indigenous  
Fermented Foods Fermented foods and  
beverages span a range of root crops,  
cereals, pulses, vegetables, nuts, fruits,

and animal products. Southeast Asia has a  
long history of utilizing fermentation in the  
production and preservation of foods, and  
is widely recognized for its prominent use.  
Indigenous Fermented Foods of Southeast  
Asia examines some indigenous fermented  
foods of Thailand, Vietnam, Indonesia,  
Malaysia, and the Philippines, focusing on  
the chemical, microbiological, and  
technological factors associated with their  
manufacture, quality, and safety. This text  
establishes a need for an adequate  
understanding of the fermentation process  
to ensure safe and reliable practices, as  
well as the consistent production of a  
quality product. The authors describe the  
production, microbiology, biochemistry,  
nutritional value, and dietary roles of a  
wide variety of indigenous fermented  
foods of Southeast Asia. Emphasizing the  
microbiological and biochemical processes  
in fermentations and examining the  
factors that influence the development of  
the characteristic microflora and chemical  
changes induced, they accurately describe  
each process and critically evaluate the  
roles of microbes in the fermentation. The  
classification of products is based on their  
microbial ecology (i.e. the predominant

microbes involved), and the text includes  
examples of every major category of  
fermented food. The book covers tempe,  
starter cultures, sweet/sour/alcoholic rice  
and cassava fermentations, alcoholic  
fermentations, soy sauce, Bacillus  
fermentations, and lactic acid bacterial  
fermentations of vegetables, durian fruit,  
rice noodles, meats, and sea foods. This  
book answers a series of basic questions  
addressing: Dominant/desired microbes  
Suitable factors in processing and the  
environment Commonly present microbes  
Compounds utilized as major carbon and  
energy sources Sources of fermentable  
carbohydrates Main biochemical activities  
and chemical changes True yield of  
product per kilogram of initial raw  
materials Possible hazards associated with  
a product How possible hazards may be  
minimized or eliminated Research needs  
and opportunities Indigenous Fermented  
Foods of Southeast Asia evaluates the  
state of scientific knowledge of the  
fermentations and identifies specific  
questions that need to be answered in  
order to promote the reproducibility,  
safety and future prospects of these  
fermented foods.

### **Scientific and Technical Aerospace Reports** Springer

Fabric Structures in Architecture covers the varying ways textiles and their properties are used in building construction, with particular focus given to tensile structures. The text begins with the fundamental principles of textiles, including the origins of fabric architecture, then progressing to a discussion of the modern textiles of today. It covers relevant textile materials and their properties, including coatings and membranes. In addition, a range of design considerations are discussed, with detailed information on installation and failure modes. A series of case studies from around the world accompany the discussion, illustrating the applications of textiles in architecture. Offers key coverage of the fundamental principles, from the origins of fabric architecture to modern textile Provides analysis of relevant textile materials and their properties, including coatings and membranes Contains expert insights in to the applications of textiles in architecture, presenting a series of relevant case-studies from around the world

Material Culture and Kinship in Poland  
Marshall Cavendish International Asia Pte Ltd

Advances in Gammaproteobacteria Research and Application: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Alteromonadaceae. The editors have built Advances in Gammaproteobacteria Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Alteromonadaceae in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Advances in Gammaproteobacteria Research and Application: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More

information is available at  
<http://www.ScholarlyEditions.com/>.

*Digital Business Discourse* Elsevier  
This is the most respected and authoritative college textbook available on human sexuality. Written in a direct, non-judgmental manner, the thirteenth edition of OUR SEXUALITY has been thoroughly and carefully updated to reflect the most current research findings and psychosocial developments. It is the first college text to deliver cutting-edge and in-depth emphasis on the impact of politics on sexuality. Crooks and Baur keep students interested with the most exciting, emerging research and coverage, and focus on strengthening their self-awareness and sexual intelligence.  
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### **Smart Design, Science & Technology**

William Andrew

Hazards, Risks, and Disasters in Society provides analyses of environmentally related catastrophes within society in historical, political and economic contexts. Personal and corporate culture mediates

how people may become more vulnerable or resilient to hazard exposure. Societies that strengthen themselves, or are strengthened, mitigate decline and resultant further exposure to what are largely human induced risks of environmental, social and economic degradation. This book outlines why it is important to explore in more depth the relationships between environmental hazards, risk and disasters in society. It presents challenges presented by mainstream and non-mainstream approaches to the human side of disaster studies. By hazard categories this book includes critical processes and outcomes that significantly disrupt human wellbeing over brief or long time-frames. Whilst hazards, risks and disasters impact society, individuals, groups, institutions and organisations offset the effects by becoming strong, healthy, resilient, caring and creative. Innovations can arise from social organisation in times of crisis. This volume includes much of use to practitioners and policy makers needing to address both prevention and response activities. Notably, as people better engage prevalent hazards and risks they

exercise a process that has become known as disaster risk reduction (DRR). In a context of climatic risks this is also indicative of climate change adaptation (CCA). Ultimately it represents the quest for development of sustainable environmental and societal futures. Throughout the book case studies are derived from the world of hazards risks and disasters in society. Includes sections on prevention of and response to hazards, risks and disasters Provides case studies of prominent societal challenges of hazards, risks and disasters Innovative approaches to dealing with disaster drawing from multiple disciplines and sectors

*Biomaterials Science* Routledge

"The goal is to provide a comprehensive reference book for the preclinical discovery and development scientist whose responsibilities span target identification, lead candidate selection, pharmacokinetics, pharmacology, and toxicology, and for regulatory scientists whose responsibilities include the evaluation of novel therapies." —From the Afterword by Anthony D. Dayan Proper preclinical safety evaluation can improve

the predictive value, lessen the time and cost of launching new biopharmaceuticals, and speed potentially lifesaving drugs to market. This guide covers topics ranging from lead candidate selection to establishing proof of concept and toxicity testing to the selection of the first human doses. With chapters contributed by experts in their specific areas, Preclinical Safety Evaluation of Biopharmaceuticals: A Science-Based Approach to Facilitating Clinical Trials: Includes an overview of biopharmaceuticals with information on regulation and methods of production Discusses the principles of ICH S6 and their implementation in the U.S., Europe, and Japan Covers current practices in preclinical development and includes a comparison of safety assessments for small molecules with those for biopharmaceuticals Addresses all aspects of the preclinical evaluation process, including: the selection of relevant species; safety/toxicity endpoints; specific considerations based upon class; and practical considerations in the design, implementation, and analysis of biopharmaceuticals Covers transitioning from preclinical development to

clinical trials This is a hands-on, straightforward reference for professionals involved in preclinical drug development, including scientists, toxicologists, project managers, consultants, and regulatory personnel. Fabric Structures in Architecture National Academies Press

Astronomy and Astrophysics Abstracts aims to present a comprehensive documentation of the literature concerning all aspects of astronomy, astrophysics, and their border fields. It is devoted to the recording, summarizing, and indexing of the relevant publications throughout the world. Astronomy and Astrophysics Abstracts is prepared by a special department of the Astronomisches Rechen-Institut under the auspices of the International Astronomical Union. Volume 43 records literature published in 1987 and received before August 15, 1987. Some older documents which we received late and which are not surveyed in earlier volumes are included too. We acknowledge with thanks contributions of our colleagues all over the world. We also express our gratitude to all organizations, observatories, and publishers which

provide us with complimentary copies of their publications. Starting with Volume 33, all the recording, correction, and data processing work was done by means of computers. The recording was done by our technical staff members Ms. Helga Ballmann, Ms. Beate Gobel, Ms. Monika Kohl, Ms. Sylvia Matyssek, Ms. Doris Schmitz-Braunstein, Ms. Utta-Barbara Stegemann. Mr. Jochen Heidt and Mr. Kristopher Polzine supported our task by careful proof reading. It is a pleasure to thank them all for their encouragement. Heidelberg, October 1987

The Editors

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#### **Deliverance from Toxic Memories** A&C Black

The high-level language of R is recognized as one of the most powerful and flexible statistical software environments, and is rapidly becoming the standard setting for quantitative analysis, statistics and graphics. R provides free access to

unrivalled coverage and cutting-edge applications, enabling the user to apply numerous statistical methods ranging from simple regression to time series or multivariate analysis. Building on the success of the author's bestselling *Statistics: An Introduction using R*, *The R Book* is packed with worked examples, providing an all inclusive guide to R, ideal for novice and more accomplished users alike. The book assumes no background in statistics or computing and introduces the advantages of the R environment, detailing its applications in a wide range of disciplines. Provides the first comprehensive reference manual for the R language, including practical guidance and full coverage of the graphics facilities. Introduces all the statistical models covered by R, beginning with simple classical tests such as chi-square and t-test. Proceeds to examine more advanced methods, from regression and analysis of variance, through to generalized linear models, generalized mixed models, time series, spatial statistics, multivariate statistics and much more. The R Book is aimed at undergraduates, postgraduates

and professionals in science, engineering and medicine. It is also ideal for students and professionals in statistics, economics, geography and the social sciences.

FUSE: Foresight-driven Understanding, Strategy and Execution Routledge Science, engineering, and technology permeate nearly every facet of modern life and hold the key to solving many of humanity's most pressing current and future challenges. The United States' position in the global economy is declining, in part because U.S. workers lack fundamental knowledge in these fields. To address the critical issues of U.S. competitiveness and to better prepare the workforce, A Framework for K-12 Science Education proposes a new approach to K-12 science education that will capture students' interest and provide them with the necessary foundational knowledge in the field. A Framework for K-12 Science Education outlines a broad set of expectations for students in science and engineering in grades K-12. These expectations will inform the development of new standards for K-12 science education and, subsequently, revisions to

curriculum, instruction, assessment, and professional development for educators. This book identifies three dimensions that convey the core ideas and practices around which science and engineering education in these grades should be built. These three dimensions are: crosscutting concepts that unify the study of science through their common application across science and engineering; scientific and engineering practices; and disciplinary core ideas in the physical sciences, life sciences, and earth and space sciences and for engineering, technology, and the applications of science. The overarching goal is for all high school graduates to have sufficient knowledge of science and engineering to engage in public discussions on science-related issues, be careful consumers of scientific and technical information, and enter the careers of their choice. A Framework for K-12 Science Education is the first step in a process that can inform state-level decisions and achieve a research-grounded basis for improving science instruction and learning across the country. The book will guide standards developers, teachers, curriculum

designers, assessment developers, state and district science administrators, and educators who teach science in informal environments.

### **People's History of Silicon Valley**

Bloomsbury Publishing Smart Design, Science & Technology represents the proceedings of the IEEE 6th International Conference on Applied System Innovation (ICASI 2020), which was held in Taitung, Taiwan November 5-8, 2020. The conference received more than 200 submitted papers from at least 11 different countries, whereby roughly one third of these papers was selected by the committees and invited to present at ICASI 2020. This book aims to provide an integrated communication platform for researchers from a wide range of disciplines including information technology, communication science, applied mathematics, computer science, advanced material science, and engineering. Only high quality papers were allowed to publish in the volume. Hopefully, interdisciplinary collaborations between science and engineering technologists in academia and industry will be enhanced via this unique

international network.

**Dual-use life science research and biosecurity in the 21st Century: Social, Technical, Policy, and Ethical Challenges** Parlor Press LLC

This book discusses the meaning and implications of the social and ethical implications of the notion of social responsibility in healthcare in six major world religions — Buddhism, Christianity, Confucianism, Hinduism, Islam, & Judaism. This collection of papers is based on a four-day workshop where bioethics experts from various religious traditions gathered. They discussed the ways in which their respective traditions could, or could not, uphold the tenets of Article 14 of UNESCO's Universal Declaration of Bioethics and Human Rights. The different papers presented in this book are based on this interchange of ideas at the workshop. The book explores the potential points of convergence among the various perspectives presented, as well as a discussion on the ways in which their moral differences may be managed. The managing of these moral differences through international socio-ethical mechanisms, contributes significantly to

the UNESCO Universal Declaration of Bioethics and Human Rights' goal of simultaneously respecting religio-cultural pluralism while upholding a commitment to human rights.

*Religious Perspectives on Social Responsibility in Health* John Wiley & Sons  
In September 2011, scientists announced new experimental findings that would not only threaten the conduct and publication of influenza research, but would have significant policy and intelligence implications. The findings presented a modified variant of the H5N1 avian influenza virus (hereafter referred to as the H5N1 virus) that was transmissible via aerosol between ferrets. These results suggested a worrisome possibility: the existence of a new airborne and highly lethal H5N1 virus that could cause a deadly global pandemic. In response, a series of international discussions on the nature of dual-use life science arose. These discussions addressed the complex social, technical, political, security, and ethical issues related to dual-use research. This Research Topic will be devoted to contributions that explore this matrix of issues from a variety of case study and

international perspectives.

Visions of Technological Transcendence  
CABI

Jesus films arose with cinema itself. Richard Walsh and Jeffrey L. Staley introduce students to these films with a general overview of the Jesus film tradition and with specific analyses of 22 of its most influential exemplars, stretching from *La vie du Christ* (1906) to *Mary Magdalene* (2018). The introduction to each film includes discussion of plot, characters, visuals, appeal to authority, and cultural location as well as consideration of the director's (and/or other filmmakers') achievements and style. Several film chapters end with reflections on problematic issues bedeviling the tradition, such as cultural imperialism and patriarchy. To assist teachers and researchers, each chapter includes a listing of DVD chapters and the approximate "time" (for both DVDs and streaming platforms) at which key film moments occur. The book also includes a Gospels Harmony cataloging the time at which key gospel incidents appear in these films. Extensive endnotes point readers to other important work on the tradition and

specific films. While the authors strive to set the Jesus film tradition within cinema and its interpretation, the DVD/streaming listing and the Gospels Harmony facilitate the comparison of these films to gospel interpretation and the Jesus tradition.

*Jesus, the Gospels, and Cinematic Imagination* Springer Science & Business Media

Today, more mediated information is available to more people than at any other time in human history. New and revitalized sense-making strategies multiply in response to the challenges of "cutting through the clutter" of competing narratives and taming the avalanche of information. Data miners, "sentiment analysts," and decision markets offer to help bodies of data "speak for themselves"—making sense of their own patterns so we don't have to.

Neuromarketers and body language experts promise to peer behind people's words to see what their brains are really thinking and feeling. New forms of information processing promise to displace the need for expertise and even comprehension—at least for those with access to the data. Infoglut explores the

connections between these wide-ranging sense-making strategies for an era of information overload and "big data," and the new forms of control they enable.

Andrejevic critiques the popular embrace of deconstructive debunkery, calling into question the post-truth, post-narrative, and post-comprehension politics it underwrites, and tracing a way beyond them.

**The Dynamics of Political Communication** CRC Press

This is a hands-on practical guide to the use of Trichoderma as a biocontrol, as part of sustainable disease control measures for Ganoderma disease in oil palm plantations. The manual provides background information on Ganoderma (basal stem rot), the most devastating disease of oil palm in Southeast Asia, as well as on the benefits of Trichoderma fungi in safe guarding yields. The disease is caused by soil-borne fungi, Ganoderma spp, which are found in West Africa and South America, as well as Southeast Asia.

**Electronic Media** UCL Press

'Who am I at this (st)age? Where am I and where should I be, and how and where should I live?' These questions, which

individuals ask themselves throughout their lives, are among the central themes of this book, which presents an anthropological account of the everyday experiences of age and ageing in an inner-city neighbourhood in Milan, and in places and spaces beyond. Ageing with Smartphones in Urban Italy explores ageing and digital technologies amidst a backdrop of rapid global technological innovation, including mHealth (mobile health) and smart cities, and a number of wider socio-economic and technological transformations that have brought about significant changes in how people live, work and retire, and how they communicate and care for each other. Based on 16 months of urban digital ethnographic research in Milan, the smartphone is shown to be a 'constant companion' in, of and for contemporary life. It accompanies people throughout the day and night, and through individual and collective experiences of movement, change and rupture. Smartphone practices tap into and reflect the moral anxieties of the present moment, while posing questions related to life values and purpose, identities and belonging, privacy



and sociability. Through her extensive investigation, Shireen Walton argues that ageing with smartphones in this contemporary urban Italian context is about living with ambiguity, change and contradiction, as well as developing curiosities about a changing world, our changing selves, and changing relationships with and to others. Ageing with smartphones is about figuring out how best to live together, differently.

**Die Blutwertlüge** Ashgate Publishing, Ltd.

Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems.

Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for

iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.