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Bruno, chef de police in the French town of St Denis, is already busy with a case when the body of an undercover French Muslim cop is found in the woods, a man who called Bruno for help only hours before. But Bruno's sometime boss and rival, the Brigadier, doesn't see this investigation as a priority - there are bigger issues at stake. Bruno has other ideas. Meanwhile, a Muslim youth named Sami turns up at a French army base in Afghanistan hoping to get home to St Denis. One of Bruno's old army comrades helps to smuggle Sami back to France, but the FBI aren't far behind. Then an American woman appears in St Denis with a warrant for Sami's extradition. Bruno must unravel these multiple mysteries, amidst pressure from his bosses, and find his own way to protect his town and its people.

This annual report documents human rights abuses by governments and armed opposition groups in 150 countries across the world. It provides an invaluable reference guide to international human rights developments.

This book explores European security and defense R&D policy, unveiling the strategic, industrial, institutional and ideational sources of the European Commission's military research initiative. Starting from a well-defined empirical epicentre—the rise of non-civilian R&D priorities in the European Union—this book covers interrelated themes and topics such as approaches to arms production and R&D collaboration relationships between European R&D-related institutions technology and research foundations of European security policy past and present European armament collaborations transatlantic R&D collaboration the militarization of border security. Divided into 5 sections, the enclosed chapters explore the EU technology and innovation policy in regards to security, industrial competitiveness and military capabilities. The terrorist attacks in the US on September 11, 2001 provided a window of opportunity for the introduction of security as a distinct European R&D priority. In fact, since 2002, the Preparatory Action for Security Research (PASR) has funded 45 million euros to 39 research consortia to conduct security R&D. While the idea of pooling defense research efforts and programmes in Europe is not new, the establishment of institutions like the European Defense Agency (EDA) are a major step into institutionalizing European agencies involvement in supporting defense technology research. It is against this backdrop of policy developments that this book is positioned, in addition to addressing some of the political, economic, industrial and philosophical questions that arise. Featuring contributions from a variety of academic fields and industries, this book will be of interest to scholars, researchers, students and policy makers in the fields of security policy, international relations, innovation, European studies and military studies.

This unique book take a completely fresh approach to child health. The authors address the challenges of child health as embodied in the UN Convention on the Rights of the Child and the positive health targets of WHO's Health for All 2000 initiative. Throughout the book they use these as a theme around which to examine the effects of adverse social, political, environmental, and family influences on child health. Social Paediatrics provides an essential theoretical and philosophical framework for those wishing to face the challenge of enhancing life quality for all children and gives practical guidelines for all involved in child health issues. It is an indispensable source of information for every pediatrician.

With all the enormous resources that are invested in medicine, it is sometimes a mystery why there is so much sickness still in evidence. Our life span, though higher than at any time in history, has now leveled off and has not significantly increased in the last two generations. There is a one-third increase in long-term illness in the last 20 years and a 44% increase in cancer incidence, which are not related to demographic issues. In some modern countries, the level of morbidity (defined as days off work because of sickness) has increased by two thirds in this time. Despite \$1 trillion spent on cancer research in 20 years, the "War On Cancer" has recently been pronounced a complete failure by the u. s. President's Cancer Panel. Evidently we still have a long way to go. The goal of "Health for All by the Year 2000" as the World Health Organization has put it, is another for-

gotten dream. As ever, the answer will be found in breaking out of the old philosophical patterns and discovering the new, as yet unacceptable concepts. The problems of medicine today require a Kuhnian breakthrough into new paradigms, and new ways of thinking. And these new ways will not be mere variations of the old, but radical departures. This book, and the conference upon which it was based, is part of a search for these new pathways.

Aiding Decisions With Multiple Criteria: Essays in Honor of Bernard Roy is organized around two broad themes: Graph Theory with path-breaking contributions on the theory of flows in networks and project scheduling, Multiple Criteria Decision Aiding with the invention of the family of ELECTRE methods and methodological contribution to decision-aiding which lead to the creation of Multi-Criteria Decision Analysis (MCDA). Professor Bernard Roy has had considerable influence on the development of these two broad areas. £/LIST£ Part one contains papers by Jacques Lesourne, and Dominique de Werra & Pierre Hansen related to the early career of Bernard Roy when he developed many new techniques and concepts in Graph Theory in order to cope with complex real-world problems. Part two of the book is devoted to Philosophy and Epistemology of Decision-Aiding with contributions from Valerie Belton & Jacques Pictet and Jean-Luis Genard & Marc Pirlot. Part three includes contributions based on Theory and Methodology of Multi-Criteria Decision-Aiding based on a general framework for conjoint measurement that allows intrasitive preferences. Denis Bouyssou & Marc Pirlot; Alexis Tsoukiàs, Patrice Perny & Philippe Vincke; Luis Dias & João Clímaco; Daniel Vanderpooten; Michael Doumpos & Constantin Zopounidis; and Marc Roubens offer a considerable range of examinations of this aspect of MCDA. Part four is devoted to Perference Modeling with contributions from Peter Fishburn; Salvatore Greco, Benedetto Matarazzo & Roman Slowinski; Salem Benferhat, Didier Dubois & Henri Prade; Oscar Franzese & Mark McCord; Bertrand Munier; and Raymond Bisdorff. Part five groups Applications of Multi-Criteria Decision-Aiding, and Carlos Henggeler Antunes, Carla Oliveira & João Clímaco; Carlos Bana e Costa, Manuel da Costa-Lobo, Isabel Ramos & Jean-Claude Vansnick; Yannis Siskos & Evangelos Grigoroudis; Jean-Pierre Brans, Pierre Kunsch & Bertrand Mareschal offer a wide variety of application problems. Finally, Part six includes contributions on Multi-Objective Mathematical Programming from Jacques Teghem, Walter Habenicht and Pekka Korhonen.

Discover why being a "fast second" is often more financially rewarding than being at the cutting edge. If you get there first, you'll lead the pack, right? Not necessarily! The skill-sets of most established companies, say strategy experts Constantinos Markides and Paul Geroski, are far better suited to scaling up newly created markets pioneered by others (in other words, being "fast seconds") than to creating these markets from scratch. In Fast Second, they explore the characteristics of new markets, describe the skills needed to create and compete in them, and show how these skills match up with different types of companies. Drawing on examples of successful fast-second firms such as Microsoft, Amazon, Canon, JVC, Heinz, and many others, they illustrate how to determine which new markets have the potential to be successful and how to move into them before the competition does, when to make a move into a new market, how to scale up a market, where to position a company in the market, and whether to be a colonizer or a consolidator. Order your copy today!

By providing a comprehensive theoretical framework, this book aims to map the most relevant technologies that have the potential to reshape the retail industry. The authors demonstrate how technology is pushing innovation, and examine how smart technologies can be fruitfully applied both in-store and through digital channels. The aim of the book is to synthesise theory and practice, and provide a richer understanding of new digital opportunities offered by the 'smart' experience. An accessible resource for researchers who want to understand this phenomenon as part of their expertise in digital marketing and e-commerce, Smart Retailing also provides insights for practitioners who are experiencing the dramatic effects of new technologies on their retail strategies.

This book presents the latest cutting edge research, theoretical methods, and novel applications in the field of computational intelligence and computational biological approaches that are aiming to

combat COVID-19. The book gives the technological key drivers behind using AI to find drugs that target the virus, shedding light on the structure of COVID-19, detecting the outbreak and spread of new diseases, spotting signs of a COVID-19 infection in medical images, monitoring how the virus and lockdown is affecting mental health, and forecasting how COVID-19 cases and deaths will spread across cities and why. Further, the book helps readers understand computational intelligence techniques combating COVID-19 in a simple and systematic way. Provides a comprehensive reference covering innovations and development of theories, conceptual models and computational algorithms focused on COVID-19; Asserts all relevant research, key themes, complex adaptive systems, metrics and paradigms dedicated towards COVID-19, enabled with evolutionary methods of computational sciences; Explores how AI and computational techniques can help to predict which patients with the virus would go on to develop Acute Respiratory Distress Syndrome (ARDS). "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Categorical data arise often in many fields, including biometrics, economics, management, manufacturing, marketing, psychology, and sociology. This book provides an introduction to the analysis of such data. The coverage is broad, using the loglinear Poisson regression model and logistic binomial regression models as the primary engines for methodology. Topics covered include count regression models, such as Poisson, negative binomial, zero-inflated, and zero-truncated models; log-linear models for two-dimensional and multidimensional contingency tables, including for square tables and tables with ordered categories; and regression models for two-category (binary) and multiple-category target variables, such as logistic and proportional odds models. All methods are illustrated with analyses of real data examples, many from recent subject area journal articles. These analyses are highlighted in the text, and are more detailed than is typical, providing discussion of the context and background of the problem, model checking, and scientific implications. More than 200 exercises are provided, many also based on recent subject area literature. Data sets and computer code are available at a web site devoted to the text. Adopters of this book may request a solutions manual from: [textbook@springer-ny.com](mailto:textbook@springer-ny.com). From the reviews: "Jeff Simonoff's book is at the top of the heap of categorical data analysis textbooks...The examples are superb. Student reactions in a class I taught from this text were uniformly positive, particularly because of the examples and exercises. Additional materials related to the book, particularly code for S-Plus, SAS, and R, useful for analysis of examples, can be found at the author's Web site at New York University. I liked this book for this reason, and recommend it to you for pedagogical purposes." (Stanley Wasserman, The American Statistician, August 2006, Vol. 60, No. 3) "The book has various noteworthy features. The examples used are from a variety of topics, including medicine, economics, sports, mining, weather, as well as social aspects like needle-exchange programs. The examples motivate the theory and also illustrate nuances of data analytical procedures. The book also incorporates several newer methods for analyzing categorical data, including zero-inflated Poisson models, robust analysis of binomial and poisson models, sandwich estimators, multinomial smoothing, ordinal agreement tables...this is definitely a good reference book for any researcher working with categorical data." Technometrics, May 2004 "This guide provides a practical approach to the appropriate analysis of categorical data and would be a suitable purchase for individuals with varying levels of statistical understanding." Paediatric and Perinatal Epidemiology, 2004, 18 "This book gives a fresh approach to the topic of categorical data analysis. The presentation of the statistical methods exploits the connection to regression modeling with a focus on practical features rather than formal theory...There is much to learn from this book. Aside from the ordinary materials such as association diagrams, Mantel-Haenszel estimators, or overdispersion, the reader will also find some less-often presented but interesting and stimulating topics...[T]his is an excellent book, giving an

up-to-date introduction to the wide field of analyzing categorical data." *Biometrics*, September 2004 "...It is of great help to data analysts, practitioners and researchers who deal with categorical data and need to get a necessary insight into the methods of analysis as well as practical guidelines for solving problems." *International Journal of General Systems*, August 2004 "The author has succeeded in writing a useful and readable textbook combining most of general theory and practice of count data." *Kwantitatieve Methoden* "The book especially stresses how to analyze and interpret data...In fact, the highly detailed multi-page descriptions of analysis and interpretation make the book stand out." *Mathematical Geology*, February 2005 "Overall, this is a competent and detailed text that I would recommend to anyone dealing with the analysis of categorical data." *Journal of the Royal Statistical Society* "This important work allows for clear analogies between the well-known linear models for Gaussian data and categorical data problems. ... Jeffrey Simonoff's *Analyzing Categorical Data* provides an introduction to many of the important ideas and methods for understanding counted data and tables of counts. ... Some readers will find Simonoff's style very much to their liking due to reliance on extended real data examples to illuminate ideas. ... I think the extensive examples will appeal to most students." (*Sanford Weisberg, SIAM Review*, Vol. 47 (4), 2005) "It is clear that the focus of Simonoff's book is different from other books on categorical data analysis. ... As an introductory textbook, the book is comprehensive enough since all basic topics in categorical data analysis are discussed. ... I think Simonoff's book is a valuable addition to the literature because it discusses important models for counts ... ." (*Jeroen K. Vermunt, Statistics in Medicine*, Vol. 24, 2005) "The author based this book on his notes for a class with a very diverse pool of students. The material is presented in such a way that a very heterogeneous group of students could grasp it. All methods are illustrated with analyses of real data examples. The author provides a detailed discussion of the context and background of the problem. ... The book is very interesting and can be warmly recommended to people working with categorical data." (*EMS - European Mathematical Society Newsletter*, December, 2004) "Categorical data arise often in many fields ... . This book provides an introduction to the analysis of such data. ... All methods are illustrated with analyses of real data examples, many from recent subject-area journal articles. These analyses are highlighted in the text and are more detailed than is typical ... . More than 200 exercises are provided, including many based on recent subject-area literature. Data sets and computer code are available at a Web site devoted to this text." (*T. Postelnicu, Zentralblatt MATH*, Vol. 1028, 2003) "This book grew out of notes prepared by the author for classes in categorical data analysis. The presentation is fresh and compelling to read. Regression ideas are used to motivate the modelling presented. The book focuses on applying methods to real problems; many of these will be novel to readers of statistics texts ... . All chapters end with a section providing references to books or articles for the inquiring reader." (*C.M. O'Brien, Short Book Reviews*, Vol. 23 (3), 2003) *Population and Health in Developing Countries: Volume 1. Poulation, health, and survival at IN-DEPTH sites*

The Information Economy Report 2017 analyzes the evolving digital economy and its implications for trade and development. While these are still early days of the digital economy, it is already clear that it will have globally transformative impacts on the way we live, work and develop our economies. As the world strives to implement the 2030 Agenda for Sustainable Development, harnessing the power of information and communications technologies (ICTs) is essential. Large parts of the developing world remain disconnected from the Internet, and many people lack access to high-speed broadband connectivity. Policymaking at the national and international levels needs to mitigate the risk that digitalization could widen existing divides and create new gaps. Since increased reliance on digital technologies, such as cloud computing, three-dimensional printing, big data and "the Internet of things", it is essential to start assessing opportunities and pitfalls alike, and to prepare for what is coming. The analysis contained in the report contributes to this process and proposes ways in which the international community can reduce inequality, enable the benefits of digitalization to reach all people and ensure that no one is left behind by the evolving digital economy.

This open access book presents the first step towards building socio-life science, a field of science investigating humans in such a way that both social and life-scientific factors are integrated. Because humans are both living and social creatures, a human action can never be understood fully without knowing both the biological traits of a person and the social scientific environments in which he exists. With this consideration, the editors of this book have initiated a research project promoting a deeper and more integrated understanding of human behavior and human health. This book aims to show what can, and could be, achieved through our interdisciplinary project. One

important product is the newly formed three-party collaboration between Pasteur Institut, Kyoto University, and the Research Institute of Economy, Trade and Industry. Covering many different fields, including medicine, epidemiology, anthropology, economics, sociology, demography, geography, and policy, researchers in these institutes, and many others, present their studies on the COVID-19 pandemic. Although based on different methodologies, the studies show the importance of behavioral change and governmental policy in the fight against a huge pandemic. The book explains the unique genome cohort-panel data that the project builds to study social and life scientific aspects of humans.

This book provides a synthesis of the key issues and challenges facing agriculture and food production in Southern Africa. Southern Africa is facing numerous challenges from diverse issues such as agricultural transformations, growing populations, urbanization and climate change. These challenges place great pressure on food security, agriculture, water availability and other natural resources, as well as impacting biodiversity. Drawing on case studies from Lesotho, Malawi, Mozambique, Namibia, South Africa, Swaziland, Tanzania, Zambia and Zimbabwe, the chapters in this book consider these challenges from an interdisciplinary perspective, covering key areas in constraints to production, the most important building blocks of good farming practices, and established and emerging technologies. This book will be a valuable support for informing new policies and processes aimed at improving food production and security and developing sustainable agriculture in Southern Africa. This informative volume will be key reading for those interested in agricultural science, African studies, rural studies, development studies and sustainability. It will also be a valuable resource for policymakers, governmental and nongovernmental organizations, and agricultural practitioners.

Market-Driven Management adopts a broad approach to marketing, integrating the strategic and operational elements of the discipline. Lambin's unique approach reflects how marketing operates empirically, as both a business philosophy and an action-oriented process. Motivated by the increased complexity of markets, globalisation, deregulation, and the development of e-commerce, the author challenges the traditional concept of the 4Ps and the functional roles of marketing departments, focusing instead on the concept of market orientation. The book considers all of the key market stakeholders, arguing that developing market relations and enhancing customer value is the responsibility of every member of the organization, and that the development of this customer value is the only way for a firm to achieve profit and growth. New to this edition: - Greater coverage of ethical issues and corporate social responsibility; cultural diversity; value and branding and the economic downturn - Broad international perspective - Thoroughly revised to reflect the latest academic thinking and research With its unique approach, international cases and complementary online resources, this book is ideal for postgraduate and upper level undergraduate students of marketing, and for MBAs and Executive MBAs.

This volume brings together a diverse range of scholars to address important philosophical and interdisciplinary questions in the study of language. Linguistics throughout history has been a conduit to the study of the mind, brain, societal structure, literature and history itself. The epistemic and methodological transfer between the sciences and humanities in regards to linguistics has often been documented, but the underlying philosophical issues have not always been adequately addressed. With 15 original and interdisciplinary chapters, this volume therefore tackles vital questions relating to the philosophy, history, and theoretical interplay between the study of language and fields as varied as logic, physics, biology, classical philology and neuroscience. With a four part structure, questions of the mathematical foundations of linguistics, links to the natural sciences, cognitive implications and historical connections, take centre stage throughout the volume. The final chapters present research related to the linguistic connections between history, philosophy and the humanities more broadly. Advancing new avenues of research, this volume is exemplary in its treatment of diachronic and cross-disciplinary interaction, and will be of interest to all scholars interested in the study of language.

Organization scholars have long acknowledged that control processes are integral to the way in which organizations function. While control theory research spans many decades and draws on several rich traditions, theoretical limitations have kept it from generating consistent and interpretable empirical findings and from reaching consensus concerning the nature of key relationships. This book reveals how we can overcome such problems by synthesising diverse, yet complementary, streams of control research into a theoretical framework and empirical tests that more fully describe how types of control mechanisms (e.g., the use of rules, norms, direct supervision or monitoring) aimed at particular control targets (e.g., input, behavior, output) are applied within par-

ticular types of control systems (i.e., market, clan, bureaucracy, integrative). Written by a team of distinguished scholars, this book not only sheds light on the long-neglected phenomenon of organizational control, it also provides important directions for future research.

This book is a printed edition of the Special Issue "Optimization in Control Applications" that was published in MCA

Disposal of radioactive waste from nuclear weapons production and power generation has caused public outcry and political consternation. Nuclear Wastes presents a critical review of some waste management and disposal alternatives to the current national policy of direct disposal of light water reactor spent fuel. The book offers clearcut conclusions for what the nation should do today and what solutions should be explored for tomorrow. The committee examines the currently used "once-through" fuel cycle versus different alternatives of separations and transmutation technology systems, by which hazardous radionuclides are converted to nuclides that are either stable or radioactive with short half-lives. The volume provides detailed findings and conclusions about the status and feasibility of plutonium extraction and more advanced separations technologies, as well as three principal transmutation concepts for commercial reactor spent fuel. The book discusses nuclear proliferation; the U.S. nuclear regulatory structure; issues of health, safety and transportation; the proposed sale of electrical energy as a means of paying for the transmutation system; and other key issues.

The book enhances current economic understanding of the firm as an institution and an organization, looking beyond the narrow boundaries of neoclassical economics to an interdisciplinary approach based on accounting and law as well as economics itself. It represents the first synthesis of the authors' research work on the subject and provides the groundwork for the development of a comprehensive framework centred on the firm as an entity. The volume starts with a synthesis and a critique of the current state of the different economic theories of the firm and further develops them through new insights and neglected lessons from different traditions of thought. The economic theory and analysis of the firm is given new life here by looking at the firm as a whole: as an institution and an organization, which has special functions and a distinct role in the economy and society.

This book is dedicated to the memory of Prof. Rick Speare, whose academic contribution included high-level research on zoonotic diseases and public health in general, of human and veterinarian medical interest, following the One Health approach. He dedicated much of his work to Aboriginal communities. In 2016, Rick was tragically killed in a car crash while driving to a seminar at James Cook University in Queensland, Australia. The book contains a total of 17 papers on communicable diseases in tropical environments, many of them published by Rick's former colleagues and co-researchers. Some papers contain material collected together with Rick, which for the first time is published here.

Delivers a state-of-the-art review of the innate immune system, utilizing the most current concepts of cellular and molecular biology. The book focuses on evolutionary aspects, describing the major cells, humoral factors, receptors, and effector responses central to innate immunity and its important relation to acquired immunity. In-depth treatment is given to the performance of the innate immune system in various situations, including bacterial, viral, fungal, and parasitic infection.

The history of slavery is central to understanding the history of the United States. Slavery and the Making of America offers a richly illustrated, vividly written history that illuminates the human side of this inhumane institution, presenting it largely through stories of the slaves themselves. Readers will discover a wide ranging and sharply nuanced look at American slavery, from the first Africans brought to British colonies in the early seventeenth century to the end of Reconstruction. The authors document the horrors of slavery, particularly in the deep South, and describe the valiant struggles to escape bondage, from dramatic tales of slaves such as William and Ellen Craft to Dred Scott's doomed attempt to win his freedom through the Supreme Court. We see how slavery set our nation on the road of violence, from bloody riots that broke out in American cities over fugitive slaves, to the cataclysm of the Civil War. Along the way, readers meet such individuals as "Black Sam" Fraunces, a West Indian mulatto who owned the Queen's Head Tavern in New York City, a key meeting place for revolutionaries in the 1760s and 1770s and Sergeant William H. Carney, who won the Congressional Medal of Honor for his bravery at the crucial assault on Fort Wagner during the Civil War as well as Benjamin "Pap" Singleton, a former slave who led freed African Americans to a new life on the American frontier.

This book presents 17 key indicators of sexual and reproductive health outcomes and those that

measure access to or use of sexual and reproductive health services. It briefly reviews the theoretical and practical considerations related to indicators, and presents definitions, data sources, collection methods, periodicity of collection, disaggregation, use, limitations and common pitfalls for each of the included indicators. National public health administrators and health programme managers would find this book useful in undertaking standardized monitoring and evaluation of their sexual and re

What's a customer worth? The company that can answer this question precisely is the company with an edge in the customer-based, technology - and information - intensive economy of today. But how can an asset as intangible as customer value be measured? This book provides a solution: a fully developed, highly practical new marketing system for measuring and managing customer value as a financial asset - a system uniquely suited to today's rapidly changing, increasingly digital marketplace. Along with strategic and tactical guidance, *Customer Equity* provides precise metrics for evaluating a business more effectively and improving performance - the "activity-based management" of a company's marketplace. The authors present a new framework for structuring go-to-market activities that links those activities to useful metrics and allows better-informed marketing decisions.

With the world watching closely, Myanmar began a process of political, administrative and institutional transition from 30 January 2011. After convening the parliament, elected in November 2010, the former military regime transferred power to a new government headed by former Prime Minister (and retired general), U Thein Sein. With parliamentary processes restored in Myanmar's new capital of Naypyitaw, Thein Sein's government announced a wide-ranging reform agenda, and began releasing political prisoners and easing press censorship. Pivotal meetings between Thein Sein and Aung San Suu Kyi led to amendment of the Election Law and the National League for Democracy contesting by-elections in April 2012. The 2011 Myanmar/Burma update conference considered the openings offered by these political changes and media reforms and the potential opportunities for international assistance. Obstacles covered include impediments to the rule of law, the continuation of human rights abuses, the impunity of the Army, and the failure to end ethnic insurgency.

A Guardian Book of the Week Longlisted for the PEN / E. O. Wilson Literary Science Writing Award An award-winning physician and scientist makes the game-changing case that genetic females are stronger than males at every stage of life Here are some facts: Women live longer than men. They have stronger immune systems. They're better at fighting cancer and surviving famine, and even see the world in a wider variety of colors. They are simply stronger than men at every stage of life. Why is this? And why are we taught the opposite? To find out, Dr. Sharon Moalem drew on his own medical experiences - treating premature babies in the neonatal intensive care unit; recruiting the elderly for neurogenetic studies; tending to HIV-positive orphans in Thailand - and tried to understand why in every instance men were consistently less likely to thrive. The answer, he discovered, lies in our genetics: two X chromosomes offer a powerful survival advantage. With clear, captivat-

ing prose that weaves together eye-opening research, case studies, diverse examples ranging from the behavior of honeybees to American pioneers, as well as experiences from his personal life and his own patients, Moalem explains why genetic females triumph over males when it comes to resiliency, intellect, stamina, immunity and much more. He also calls for a reconsideration of our male-centric, one-size-fits-all view of medical studies and even how we prescribe medications - a view that still sees women through the lens of men. Revolutionary and yet utterly convincing, *The Better Half* will make you see humanity and the survival of our species anew.

A moral dilemma gripped Professor Gupta when he was invited by the Bangladeshi government to help restructure their agricultural sector in 1985. He noticed how the marginalized farmers were being paid poorly for their otherwise unmatched knowledge. The gross injustice of this constant imbalance led Professor Gupta to found what would turn into a resounding social and ethical movement—the Honey Bee Network—bringing together and elevating thousands of grassroots innovators. For over two decades, Professor Gupta has travelled through rural lands unearthing innovations by the ranks—from the famed Mitti Cool refrigerator to the footbridge of Meghalaya. He insists that to fight the largest and most persistent problems of the world we must eschew expensive research labs and instead, look towards ordinary folk. Innovation—that oft-flung around word—is stripped to its core in this book. Poignant and personal, *Grassroots Innovation* is an important treatise from a social crusader of our time.

Throughout the last decade, the 'gig economy' has emerged as one of the most significant developments in the world of work. As a novel, hyper-flexible form of labour, gig work features a uniquely fragmented working arrangement wherein independent workers partner with digital platform organisations to provide a range of on-demand services to customers. *Work in the Gig Economy: A Research Overview* provides a concise overview to the key themes and debate that encompass the gig economy literature. It covers five core themes: an introduction to gig work; classification issues; the role of technology; the experiences of gig workers; and the future of gig work. As an emerging and diverse research field, contributions stem from an array of perspectives including psychology, sociology, human resource management, legal studies, and technology management. The chapters synthesise the most prominent insights into this emerging field, key thinking on the complex relationships and conditions found in gig work, and the most significant issues to be addressed as the gig economy continues to develop. A critical introduction for students, scholars and reflective professionals and policymakers, this book provides much needed direction through the rapidly growing and expansive body of research on work in the gig economy.

Although the development of ideas about the motion and trajectory of comets has been investigated piecemeal, we lack a comprehensive and detailed survey of physical theories of comets. The available works either illustrate relatively short periods in the history of physical cometology or portray a landscape view without adequate details. The present study is an attempt to review - with more details - the major physical theories of comets in the past two millennia, from Aristotle to

Whipple. My research, however, did not begin with antiquity. The basic question from which this project originated was a simple inquiry about the cosmic identity of comets at the dawn of the astronomical revolution: how did natural philosophers and astronomers define the nature and place of a new category of celestial objects - comets - after Brahe's estimation of cometary distances? It was from this turning point in the history of cometary theories that I expanded my studies in both the pre-modern and modern eras. A study starting merely from Brahe and ending with Newton, without covering classical and medieval thought about comets, would be incomplete and leave the fascinating achievements of post-Newtonian cometology unexplored.

DHIS2 is a tool for collection, validation, analysis, and presentation of aggregate and patientbased statistical data, tailored (but not limited) to integrated health information management activities. It is a generic tool rather than a pre-configured database application, with an open meta-data model and a flexible user interface that allows the user to design the contents of a specific information system without the need for programming. DHIS2 is a modular web-based software package built with free and open source Java frameworks.

This book presents a greatly enlarged statistical framework compared to generalized linear models (GLMs) with which to approach regression modelling. Comprising of about half-a-dozen major classes of statistical models, and fortified with necessary infrastructure to make the models more fully operable, the framework allows analyses based on many semi-traditional applied statistics models to be performed as a coherent whole. Since their advent in 1972, GLMs have unified important distributions under a single umbrella with enormous implications. However, GLMs are not flexible enough to cope with the demands of practical data analysis. And data-driven GLMs, in the form of generalized additive models (GAMs), are also largely confined to the exponential family. The methodology here and accompanying software (the extensive VGAM R package) are directed at these limitations and are described comprehensively for the first time in one volume. This book treats distributions and classical models as generalized regression models, and the result is a much broader application base for GLMs and GAMs. The book can be used in senior undergraduate or first-year postgraduate courses on GLMs or categorical data analysis and as a methodology resource for VGAM users. In the second part of the book, the R package VGAM allows readers to grasp immediately applications of the methodology. R code is integrated in the text, and datasets are used throughout. Potential applications include ecology, finance, biostatistics, and social sciences. The methodological contribution of this book stands alone and does not require use of the VGAM package.

The World Intellectual Property Report 2017 examines the crucial role of intangibles such as technology, design and branding in international manufacturing. Macroeconomic analysis is complemented by case studies of the global value chains for three products - coffee, photovoltaic energy cells and smartphones - to give an insightful picture of the importance of intellectual property and other intangibles in modern production.