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For the Vampire community, the Solstice Choosing has been the holiest night of the year - for a hundred thousand years. But this year, something new is about to happen. The oldest prophecies are about to be fulfilled - and the Festival of Blessings is finally upon us. The need to understand, interpret and analyse competing risk data is key to many areas of science, particularly medical research. There is a real need for a book that presents an overview of methodology used in the interpretation and analysis of competing risks, with a focus on practical applications to medical problems, and incorporating modern techniques. This book fills that need by presenting the most up-to-date methodology, in a way that can be readily understood, and applied, by the practitioner. The object of this study was to discover and trace the origins and evolution of the process by which accounting principles are established in New Zealand. This second volume based on Michael Kidger's popular short courses and workshops is aimed at readers already familiar with the concepts presented in Fundamental Optical Design (SPIE Press Vol. PM92). It begins with a sweeping discussion of optimization that is written with the user in mind and continues with a unique look at the role of higher-order aberrations. The book's key feature is its astounding presentation of a wide range of practical design examples, covering such problems as secondary spectrum correction, high numerical aperture

designs, lasers, zoom lenses, tilted or decentered optical systems, and price and performance requirements. Each scenario is accompanied by an in-depth discussion that goes well beyond the ray aberration plot, including useful insights into an optical designer's thought processes Abstract "The available literature data on the species diversity and geographical distribution of Collembola in Canada and Alaska is summarized. In total, the checklist covers 541 named species of Collembola. This includes 475 species in 135 genera from 24 families recorded from Canada, as well as 241 species in 75 genera from 19 families reported from Alaska. For each species the current name, basionym with a full reference, records for different provinces and territories with their authorships, and general distributional ranges are given. Taxonomic remarks have been added when necessary. The checklist is based on 536 references (including 262 with Canadian records) published up to May 2018 and on a number of publicly available online resources. Keywords: Collembola, springtails, species list, taxonomic remarks, distribution, Canada, Alaska, Collembola"--Page 6. Making complex methods more accessible to applied researchers without an advanced mathematical background, the authors present the essence of new techniques available, as well as classical techniques, and apply them to data. Practical suggestions for implementing the various methods are set off in a series of practical notes at the end of each section, while technical details of the derivation of the techniques are sketched in the technical notes. This book will thus be useful for investigators who need to analyse censored or truncated life time data, and as a textbook for a graduate course in survival analysis, the only prerequisite being a standard course in statistical methodology. Industry 4.0 is a challenge for today's businesses. It's a concept that encompasses the technological innovations of automation, control, and information technology, as it's applied to manufacturing processes. It's a new topic that recently emerged in academia and industry, with few books that target both management and engineering. This book will cover the new advances and the way to manage competitive organizations. The chapters will include terms of theory, evidence, and/or methodology, and significantly advance social scientific research. This book: Focuses on the latest and most recent research findings occurring on the topic of Industry 4.0 Presents the ways companies around the world are facing today's technological challenges Assists researchers and practitioners in selecting the correct options and strategies to manage competitive organizations Provides recent advances in international studies Encompasses the main technological innovations in the fields of automation, control, and information technology applied to the manufacturing processes Industry 4.0: Challenges, Trends, and Solutions in Manangement and Engineering is designed to increase the knowledge and effectiveness of all managers and engineers in

all organizations and activity sectors Carolina Machado has been teaching in the Human Resources Management subjects since 1989 at University of Minho, Portugal. She has been an associate professor since 2004, with experience and research interest areas in the field of Human Resource Management, International Human Resource Management, Human Resource Management in SMEs, Training and Development, Emotional Intelligence, Management Change, Knowledge Management, and Management/HRM in the Digital Age. She is head of the Department of Management and head of the Human Resources Management Work Group at University of Minho, as well as chief editor of the International Journal of Applied Management Sciences and Engineering (IJAMSE). J. Paulo Davim is a professor at the Department of Mechanical Engineering of the University of Aveiro, Portugal. He has more than 30 years of teaching and research experience in Manufacturing, Materials, Mechanical, and Industrial Engineering, with special emphasis in Machining & Tribology. He has also interest in Management, Engineering Education, and Higher Education for Sustainability. He has worked as evaluator of projects for ERC (European Research Council) and other international research agencies. There is no shortage of lens optimization software on the market to deal with today's complex optical systems for all sorts of custom and standardized applications. But all of these software packages share one critical flaw: you still have to design a starting solution. Continuing the bestselling tradition of the author's previous books, *Lens Design, Fourth Edition* is still the most complete and reliable guide for detailed design information and procedures for a wide range of optical systems. Milton Laikin draws on his varied and extensive experience, ranging from innovative cinematographic and special-effects optical systems to infrared and underwater lens systems, to cover a vast range of special-purpose optical systems and their detailed design and analysis. This edition has been updated to replace obsolete glass types and now includes several new designs and sections on stabilized systems, the human eye, spectrographic systems, and diffractive systems. A new CD-ROM accompanies this edition, offering extensive lens prescription data and executable ZEMAX files corresponding to figures in the text. Filled with sage advice and completely illustrated, *Lens Design, Fourth Edition* supplies hands-on guidance for the initial design and final optimization for a plethora of commercial, consumer, and specialized optical systems. This volume offers contributions from leading experts in the biology of chaetognaths, or arrow worms--voracious carnivores which are exceptionally abundant in all the seas of the world. Until now there has been a lack of easily accessible information on this group, despite the fact that their vast numbers very likely render chaetognaths of major ecological significance in marine planktonic communities. This work is the first comprehensive survey. It deals with all aspects of chaetognath biology, including much recent and unpublished work. Two chapters are devoted to taxonomic relationships, two chapters cover morphology and anatomy, four chapters are concerned with

physiology and behavior, three are devoted to ecology, and one chapter provides detailed information about the techniques necessary for studying the organism. The book will interest all marine biologists and zoologists working on plankton, along with invertebrate biologists, systematists, and advanced students of marine biology. It's the Queen's birthday, and the children must work together to create the most amazing machine - a machine that can create 100 apple crumbles by the afternoon tea party. With growing concerns around mental health, and in the wake of a period of uncertainty and change, it is more important than ever to pay attention to how young children express their emotions, and to teach them to articulate their thoughts in a healthy way. This beautifully illustrated picture book helps children understand the 'journey' in thinking, exploring the ways in which collaborating, experimenting and changing ideas can open new possibilities. By learning to reframe their memories, children learn that change and transition don't have to be bad things. When it comes to child and adolescent mental health issues, prevention and early intervention are key. The 'serve and return' format of this book provides a virtual space where children can explore thoughts and feelings, teaching them to be resilient in the face of change. An expert communicator, Jack McAfghan writes the memoirs of his four-legged life as a mixed-breed Afghan Hound. From obedience and agility training to hospice work, Jack and his master learn their lessons side by side, inevitably applying what they have learned as their own lives unfold. It is a love story that can be used as an informal study guide for those who are in the process of training a dog, learning to love, or grieving over the loss of a friend. Jack presents with a wise, open and informed mind. He speaks firsthand about the psychological aspects of canine behavior as he opens the reader's mind to the possibilities that exist in life and after death. He reminds us that the way we think can change the course of our lives. This story will touch everyone who has ever loved. It matters not if they have four legs or two. Jack leads us to a higher love as he expands our tolerance and compassion for all of humanity. He extends himself to every creature of the earth, every human on the planet, every spirit in the universe and most of all, to the bona fide Master over all. The aim of this series is to provide a common ground between obstetricians and paediatricians, and to describe current practice in a way that is useful and relevant to both groups. *Embryology and Phylogeny in Annelids and Arthropods* describes the embryology of segmented invertebrates, utilizing morphological facts of embryonic development in the furtherance of speculations on phylogenetic relationships. This book begins with an introduction to embryology and phylogeny, followed by a discussion on the experimental embryology of animals groups, such as polychaetes, oligochaetes and leeches, onychophorans, myriapods, apterygote and pterygote insects, crustaceans, and chelicerates. The cleavage, gastrulation, and basic pattern of development of these invertebrates are also provided. This text concludes with a presentation of the onychophoran-myriapod-hexapod assemblage or Uniramia. This publication is recommended

for experimental embryologists researching on the embryonic development in annelids and arthropods. Solid and transparent data analysis is the most important basis for reliable interpretation of experiments. The technique of parallel spike train recordings using multi-electrode arrangements has been available for many decades now, but only recently gained wide popularity among electro physiologists. Many traditional analysis methods are based on firing rates obtained by trial-averaging, and some of the assumptions for such procedures to work can be ignored without serious consequences. The situation is different for correlation analysis, the result of which may be considerably distorted if certain critical assumptions are violated. The focus of this book is on concepts and methods of correlation analysis (synchrony, patterns, rate covariance), combined with a solid introduction into approaches for single spike trains, which represent the basis of correlations analysis. The book also emphasizes pitfalls and potential wrong interpretations of data due to violations of critical assumptions. The book shows how the various paradigms of computational intelligence, employed either singly or in combination, can produce an effective structure for obtaining often vital information from ECG signals. The text is self-contained, addressing concepts, methodology, algorithms, and case studies and applications, providing the reader with the necessary background augmented with step-by-step explanation of the more advanced concepts. It is structured in three parts: Part I covers the fundamental ideas of computational intelligence together with the relevant principles of data acquisition, morphology and use in diagnosis; Part II deals with techniques and models of computational intelligence that are suitable for signal processing; and Part III details ECG system-diagnostic interpretation and knowledge acquisition architectures. Illustrative material includes: brief numerical experiments; detailed schemes, exercises and more advanced problems. The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners. Rural air service: hearing before the Subcommittee on Aviation of the Committee on Commerce, Science, and Transportation, United States Senate, One Hundred Ninth Congress, second session, September 14, 2006. 'In this pathbreaking volume Muncie and Goldson bring together leading authors to examine and compare youth justice systems around the world. Comparative Youth Justice will be of interest to all criminologists concerned with comparative penal policy and will be essential to all scholars of youth justice' - Professor Tim Newburn, London School of Economics and Political Science and President of the British Society of Criminology 'Comparative Youth Justice is what we need in an era of hardening social policies and irresponsible political demagoguery: thoughtful critiques, comparative analysis, and a commitment to the rights of youth. John Muncie and Barry Goldson have done a fine job of bringing together a group of commentators who know the inner workings of juvenile justice and what it will take to change the current law and order model. A book that is required reading for practitioners, professors, policy makers, researchers, and students concerned

about the bankrupt state of juvenile justice and willing to consider new ideas and directions' - Tony Platt, California State University, Sacramento With contributions from leading commentators from 13 different countries, this carefully integrated edited collection comprises the most authoritative comparative analysis of international youth justice currently available. However, Comparative Youth Justice is not simply an attempt to document national similarities and differences, but looks critically at how global trends are translated at the local level. This book also examines how youth justice is implemented in practice with a view to promoting change as well as reflection. Each chapter addresses key critical issues: - the degree of compliance with international law; - the extent of re-penalisation; - adulteration; - tolerance; - the impact of experiments in restoration and risk management. This book is designed as a companion volume to Youth Crime and Justice, edited by Barry Goldson and John Muncie, published simultaneously by SAGE Publications. 'This is a brilliant set of edited volumes that will be an indispensable and timely source of information and analysis for anyone with an interest in issues of youth justice and comparative criminology.' David A. Green, Oxford University Your Guide to the 10 Best of Everything in Seoul Discover the best of everything South Korea's capital city has to offer with the essential DK Eyewitness Top 10 Travel Guide Seoul. Top 10 lists showcase the best places to visit in Seoul, from Dongdaemun market to the grand royal palace of Gyeongbokgung. Seven easy-to-follow itineraries explore the city's most interesting areas - from the arty district of Insadong to Bukhansan National Park - while reviews of the best hotels, shops and restaurants in Seoul will help you plan your perfect trip. Humble beans are the true MVPs of the kitchen. They have a long shelf life, are packed with protein, and best of all, they taste great in a wide variety of applications. This collection of 20 foolproof recipes gives beans their due, putting them center stage in recipes such as Ultracreamy Hummus (you've never had homemade hummus this velvety-smooth) and White Bean and Tuna Salad (two pantry-friendly ingredients come together for a dish that's greater than the sum of its parts). We share the secrets to making light and crispy Falafel as well as irresistible soups and sides. Whether you're looking for breakfast inspiration (our recipe for Scrambled Eggs with Pinto Beans and Cotija Cheese delivers tender eggs with a mildly spicy kick), internationally inspired mains such as Palak Dal (Spinach Dal with Cumin and Mustard Seeds) and Tuscan Shrimp and Beans, or hearty vegetarian dishes such as Black Bean Burgers and Meatless "Meat" Sauce with Chickpeas and Mushrooms, this collection gives you 20 great reasons to put beans on the menu. This book provides all the essential and best elements of Kidger's many courses taught worldwide on lens and optical design. It is written in a direct style that is compact, logical, and to the point--a tutorial in the best sense of the word. "I read my copy late last year and read it straight through, cover to cover. In fact, I read it no less than three times. Its elegant expositions, valuable insights, and up-front espousal of pre-design theory make it an outstanding work. It's in the same league with Conrady and

Kingslake." Warren Smith. This book comprises papers resulting from the 1st International workshop 'Minerals as Advanced Materials I'. It is intended as an exchange of ideas between mineralogists and material scientists. The aim is to identify minerals and mineral objects that have or potentially have unique physical, chemical and structural properties that are of interest from the viewpoint of applied mineralogy and material science. The author studied Crystallography at the St. Petersburg State University. Life is made of moments. What are you doing to make the most of them? In Moment Maker, Carlos Whittaker shows you how to make each moment count, so those moments add up to a life rich with meaning, deeply satisfying, and full of purpose. Every day we have an opportunity to make our lives meaningful, to make them matter. Yet, for so many of us, we let too much of life happen without taking notice. For author, speaker, and podcaster Carlos Whittaker, living deliberately has become a way of life. Making moments that are significant, memorable, or impactful are a part of how he navigates each day, and it has forever changed the landscape of his story. In Moment Maker, Carlos shares powerful stories and examples from ordinary life, as well as insights from Scripture, that have formed his practical and meaningful game plan for living on purpose and with purpose. In these pages, he will guide you to: Increase awareness of your surroundings, the people you encounter, and the needs of others Recognize opportunities that present themselves and be encouraged to seize them Discover how to create, receive, and rescue key moments in everyday life Unlock the satisfaction of living to the full depth of your life's potential The beauty of having a moment-making life is that it does not require a big investment of time, energy, or money. It simply requires a commitment to pay attention. All around you there are opportunities to meet a need, shift your focus, and begin healing. It is time to become a Moment Maker. Tractors, unique in their uses, have undergone thousands of changes over the years to become one of the most handy machines one can have, in any form. There have been so many amazing discoveries and inventions in the history of mankind that it would be difficult to place them in order of importance. Many have revolutionized the way society works, and this could also be said of the humble tractor. Without it, it would be impossible to produce the vast amounts of food required by society today, and for this reason alone it must qualify as a small but essential cog in the vast machine that is the modern world. The earliest pioneer machines used steam traction rather than the new-fangled internal combustion engines, but technological break-throughs came thick and fast: diesel engines, Harry Ferguson's revolutionary three-point-hitch, sophisticated hydraulics, and the wonders of electronics in our own time. Henry Ford made tractors that small farmers could afford, International Harvester pioneered the 1920s Farmall - the first tractor able to cope with row crops - while Allis-Chalmers introduced pneumatic rubber tires in the 1930s. Nearly 30 years later the Steiger brothers invented an entirely new breed, the giant four-wheel-drive articulated super-tractor. This book covers more than a century of tractor-making

and features tractors that are regarded with something like affection - Case, Fordson, Massey-Ferguson, Minneapolis-Moline, Versatile - they are all here and many others. Tractors of all shapes, sizes, ages, colors and types - they are here in all their resplendent glory. This book is a collection of papers that are devoted to various aspects of interactions between mineralogy and material sciences. It will include reviews, perspective papers and original research papers on mineral nanostructures, biomineralization, micro- and nanoporous mineral phases as functional materials, physical and optical properties of minerals, etc. Many important materials that dominate modern technological development were known to mineralogists for hundreds of years, though their properties were not fully recognized. Mineralogy, on the other hand, needs new impacts for the further development in the line of modern scientific achievements such as bio- and nanotechnologies as well as by the understanding of a deep role that information plays in the formation of natural structures and definition of natural processes. It is the idea of this series of books to provide an arena for interdisciplinary discussion on minerals as advanced materials. This book is for statistical practitioners, particularly those who design and analyze studies for survival and event history data. Building on recent developments motivated by counting process and martingale theory, it shows the reader how to extend the Cox model to analyze multiple/correlated event data using marginal and random effects. The focus is on actual data examples, the analysis and interpretation of results, and computation. The book shows how these new methods can be implemented in SAS and S-Plus, including computer code, worked examples, and data sets. Contains additional discussion and examples on left truncation as well as material on more general censoring and truncation patterns. Introduces the martingale and counting process formulation which will be in a new chapter. Develops multivariate failure time data in a separate chapter and extends the material on Markov and semi Markov formulations. Presents new examples and applications of data analysis. A text for researchers and practitioners interested in human happiness. Its editors and chapter contributors are world leaders in the investigation of happiness across the fields of psychology, education, philosophy, social policy and economics. This monograph contains many ideas on the analysis of survival data to present a comprehensive account of the field. The value of survival analysis is not confined to medical statistics, where the benefit of the analysis of data on such factors as life expectancy and duration of periods of freedom from symptoms of a disease as related to a treatment applied individual histories and so on, is obvious. The techniques also find important applications in industrial life testing and a range of subjects from physics to econometrics. In the eleven chapters of the book the methods and applications of are discussed and illustrated by examples. This text is an accessible, student-friendly introduction to the wide range of mathematical and statistical tools needed by the forensic scientist in the analysis, interpretation and presentation of experimental measurements. From a basis of high school

mathematics, the book develops essential quantitative analysis techniques within the context of a broad range of forensic applications. This clearly structured text focuses on developing core mathematical skills together with an understanding of the calculations associated with the analysis of experimental work, including an emphasis on the use of graphs and the evaluation of uncertainties. Through a broad study of probability and statistics, the reader is led ultimately to the use of Bayesian approaches to the evaluation of evidence within the court. In

every section, forensic applications such as ballistics trajectories, post-mortem cooling, aspects of forensic pharmacokinetics, the matching of glass evidence, the formation of bloodstains and the interpretation of DNA profiles are discussed and examples of calculations are worked through. In every chapter there are numerous self-assessment problems to aid student learning. Its broad scope and forensically focused coverage make this book an essential text for students embarking on any degree course in forensic science or forensic analysis, as well as an

invaluable reference for post-graduate students and forensic professionals. Key features: Offers a unique mix of mathematics and statistics topics, specifically tailored to a forensic science undergraduate degree. All topics illustrated with examples from the forensic science discipline. Written in an accessible, student-friendly way to engage interest and enhance learning and confidence. Assumes only a basic high-school level prior mathematical knowledge.

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