

2012 Dalhousie University Formula Sae Design Report

Contributors focus on the maladaptive aspects of perfectionism and explore such questions as: How is perfectionism assessed and conceptualized? How does perfectionism develop? What is the role of emotion, stress, or depression in perfectionism? Why are perfectionists anxious? When is perfectionism irrational? Leading scholars reveal perfectionism as a personality style with multiple developmental influences that contribute to significant interpersonal problems. Their chapters combine the best current research with insights relevant to the treatment and origins of perfectionism. Perfectionism will be a welcome resource for researchers, clinicians, counselors, and educators who encounter perfectionists in their work and all others who are interested in learning more about this challenging personality style.

Membranes play an enormous role in our life. Biological cell membranes control the fluxes of substances in and out of cells. Artificial membranes are widely used in numerous applications including “green” separation processes in chemistry, agroindustry, biology, medicine; they are used as well in energy generation from renewable sources. They largely mimic the structure and functions of biological membranes. The similarity in the structure leads to the similarity in the properties and the approaches to study the laws governing the behavior of both biological and artificial membranes. In this book, some physico-chemical and chemico-physical aspects of the structure and behavior of biological and artificial membranes are investigated.

This is Volume 42 of the Educational Media and Technology Yearbook. For the past 40 years, our Yearbook has contributed to the field of Educational Technology in presenting contemporary topics, ideas, and developments regarding diverse technology tools for educational purposes. Our Yearbook has inspired researchers, practitioners, and teachers to consider how to develop technological designs and develop curricula and instruction integrating technology to enhance student learning, teach diverse populations across levels with effective technology integration, and apply technology in interactive ways to motivate students to engage in course content. In addition, Volume 42 features the Virtual Reality (VR) and Augmented Reality (AR) research and educational use cases, organized and coordinated by Vivienne and David. This section provides evidence that the affordances of AR, VR, and mixed reality, defined as an immersive multi-platform experience reality (XR), have begun to make indelible changes in teaching and learning in the United States. XR’s recent developments stimulated the editors to propose a special edition to mark the interoperability of immersive technology to push the boundaries of human curiosity, creativity, and problem solving. After years of incremental development, XR has reached a critical level of investment, infrastructure, and emerging production. The chapters included in this section illustrate how XR can push user inquiry, engagement, learning, and interactivity to new levels within physical and digital contexts.

ESSENTIALS OF BUSINESS ANALYTICS, 2e can be used by students who have previously taken a course on basic statistical methods as well as students who have not had a prior course in statistics. The expanded material in the second edition of Essentials of Business Analytics also makes it amenable to a two-course sequence in

business statistics and analytics. All statistical concepts contained in this textbook are presented from a business analytics perspective using practical business examples. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book provides a wide spectrum of readers with comprehensive but easily understandable protocols for the assessment and training of wheelchair skills. The Wheelchair Research Team at Dalhousie University and the Capital District Health Authority in Halifax (lead by the author) have focused on wheelchair safety and performance for three decades, as exemplified through the Wheelchair Skills Program. This is considered the top such program in the world. This new book is largely based on this program which has been accessed and utilized by over 75,000 people in 177 countries since 2007.

For a century, economists have driven forward the cause of globalization in financial institutions, labour markets, and trade. Yet there have been consistent warning signs that a global economy and free trade might not always be advantageous. Where are the pressure points? What could be done about them? Dani Rodrik examines the back-story from its seventeenth-century origins through the milestones of the gold standard, the Bretton Woods Agreement, and the Washington Consensus, to the present day. Although economic globalization has enabled unprecedented levels of prosperity in advanced countries and has been a boon to hundreds of millions of poor workers in China and elsewhere in Asia, it is a concept that rests on shaky pillars, he contends. Its long-term sustainability is not a given. The heart of Rodrik's argument is a fundamental 'trilemma': that we cannot simultaneously pursue democracy, national self-determination, and economic globalization. Give too much power to governments, and you have protectionism. Give markets too much freedom, and you have an unstable world economy with little social and political support from those it is supposed to help. Rodrik argues for smart globalization, not maximum globalization.

For courses in Mathematics for Business and Mathematical Methods in Business. This classic text continues to provide a mathematical foundation for students in business, economics, and the life and social sciences. Abundant applications cover such diverse areas as business, economics, biology, medicine, sociology, psychology, ecology, statistics, earth science, and archaeology. Its depth and completeness of coverage enables instructors to tailor their courses to students' needs. The authors frequently employ novel derivations that are not widespread in other books at this level. The Twelfth Edition has been updated to make the text even more student-friendly and easy to understand.

In the early twenty-first century international education emerged as an almost ubiquitous concept within discussions of educational curriculum; the objectives of schools, universities, and colleges; and government policies for K–12 and higher education. Although far from a new phenomenon, many jurisdictions now view international education as a highly competitive global industry. This book provides a comprehensive analysis of international education policy in Canada, tracing the complex history of when, how, and why it emerged as a policy area of strategic importance. Illuminating a uniquely Canadian perspective, influenced by regional interests and federal-provincial tensions, *International Education as Public Policy in Canada* addresses challenging questions: Why was Canada a latecomer in addressing

this policy issue? What is the relationship between international education and Canadian immigration policy? How did international education develop as a major Canadian industry? The resulting essays from leading scholars contribute not only to the growing Canadian literature on international education policy but also to a critical, global conversation. Contemplating where the Canadian story of international education is headed, *International Education as Public Policy in Canada* calls for a broader debate on ethical practices in internationalization, focusing on inclusion, equity, compassion, and reciprocity.

Gives new and veteran faculty practical guidance on how to most effectively teach and create academic support systems for college students in their first, most critical year. Describes how to design a useful syllabus, how to develop productive out-of-class assignments, how to enhance class participation through creative techniques, and how to evaluate student learning for better insights.

The continued prevalence of major incidents (most recently the 2010 BP Gulf of Mexico Oil Spill) and preponderance of workplace fatalities and injuries as well as Process Safety Management (PSM) Incidents, globally, begs the question: why do incidents continue to occur in today's technologically advanced era? More importantly, with 80-85 percent of incidents being repeated, the more obvious questions are: Why do organizations fail to learn from prior incidents internal to the business? Why do organizations fail to learn from their peers and other same industry players? Why do organizations fail to learn from the incidents and experiences of other industries? *Process Safety Management: Leveraging Networks and Communities of Practice for Continuous Improvement* provides a road map organizations can use to identify and setup critical networks for preventing catastrophic incidents and for sharing knowledge in an organized manner within the organization to enhance business performance. The book helps organizations establish centers of excellence by activating networks for generating best practices and practical solutions to workplace business, and safety challenges. The book covers the full range of activation of networks including identifying members, defining goals and objectives, and prioritizing work through leadership and stewardship of networks. It addresses all elements of effective safety management and includes simple, easy-to-follow processes that bring about lasting changes to workplace safety. It also highlights the health and safety needs of both Generation X and Generation Y who currently inherit the workplace but are very different in learning behaviors and experience levels. In a thin margins business environment characterized by scarce resources, operational discipline and excellence drives stakeholder confidence and corporate performance. Detailing the practical application of tested principles and practices, this book provides a simple path forward for organizations to recognize the benefits of networks and to proactively establish and support them within organizations to generate continuous and sustained improvement in work practices, procedures, and business performance.

Contrary to the prevailing view in the West that the 500-year dominance of Western civilization points to it being the only universal civilization. *Can Asians Think?* argues that other civilizations may yet make equal contributions to the development and growth of mankind. Hailed as "an Asian Toynbee" and "the Max Weber of the new Confucian ethic", Mahbubani continues to illuminate his central arguments with new essays in this fourth edition.

Automotive technology.

"As frustration mounts in some quarters at the perceived inadequacy or speed of international action on climate change, and as the likelihood of significant impacts grows, the focus is increasingly turning to liability for climate change damage. Actual or potential climate change liability implicates a growing range of actors, including governments, industry, businesses, non-governmental organisations, individuals and legal practitioners. Climate Change Liability provides an objective, rigorous and accessible overview of the existing law and the direction it might take in seventeen developed and developing countries and the European Union. In some jurisdictions, the applicable law is less developed and less the subject of current debate. In others, actions for various kinds of climate change liability have already been brought, including high profile cases such as Massachusetts v. EPA in the United States. Each chapter explores the potential for and barriers to climate change liability in private and public law"--

The Platinum Edition presents the complete content of Perry's Chemical Engineer's Handbook, Seventh Edition, in both print and electronic formats packaged together and now available at one great price. The print Handbook is the world renowned source to chemical engineering practices--covering everything from the fundamentals to details on computer applications and control, as well as the newest advances in your field. The accompanying CD, with its extensive graphics and fast problem-solving capabilities, is the perfect interactive complement to the text. This exclusive set is expressively designed for engineers with the highest standards--professionals who will settle for nothing less than the outstanding, superior-quality reference tools in this Platinum Edition. Two great reference tools--available at one great price! On the CD-ROM *The entire text of Perry's Chemical Handbook, Seventh Edition *75 interactive equations *On-screen problem-solving: math formulas, calculations, graphs, and tables *Automatic conversions from U.S. to metric (SI) standard units *Fully searchable Adobe Acrobat format *Hyperlinked Table of Contents and Index Minimum System Requirements PC with 486 or higher processor Microsoft Windows 3.1, Windows 95, or Windows NT 3.5.1 or later / 16 MB of RAM 25 MB of available hard-disk space SVGA monitor / 2x CD-ROM drive / Mouse

The Oxford Handbook of the Canadian Constitution provides an ideal first stop for Canadians and non-Canadians seeking a clear, concise, and authoritative account of Canadian constitutional law. The Handbook is divided into six parts: Constitutional History, Institutions and Constitutional Change, Aboriginal Peoples and the Canadian Constitution, Federalism, Rights and Freedoms, and Constitutional Theory. Readers of this Handbook will discover some of the distinctive features of the Canadian constitution: for example, the importance of Indigenous peoples and legal systems, the long-standing presence of a French-speaking population, French civil law and Quebec, the British constitutional heritage, the choice of federalism, as well as the newer features, most notably the Canadian Charter of Rights and Freedoms, Section Thirty-Five regarding Aboriginal rights and treaties, and the procedures for constitutional amendment. The Handbook provides a remarkable resource for comparativists at a time when the Canadian constitution is a frequent topic of constitutional commentary. The Handbook offers a vital account of constitutional challenges and opportunities at the time of the 150th anniversary of Confederation.

“A necessary book for anyone truly interested in what we take from the sea to eat, and how, and why.” —Sam Sifton, The New York Times Book Review Acclaimed author of American Catch and The Omega Principle and life-long fisherman, Paul Greenberg takes us on a journey, examining the four fish that dominate our menus: salmon, sea bass, cod, and tuna. Investigating the forces that get fish to our dinner tables, Greenberg reveals our damaged relationship with the ocean and its inhabitants. Just three decades ago, nearly everything we ate from the sea was wild. Today, rampant overfishing and an unprecedented biotech revolution have brought us to a point where wild and farmed fish occupy equal parts of a complex marketplace. Four Fish offers a way for us to move toward a future in which healthy and sustainable seafood is the rule rather than the exception.

"This resource book discusses the economic arguments that could (and could not) be put forth to support the case for investing in the social determinants of health on average and in the reduction in socially determined health inequalities. It provides an overview and introduction into how economists would approach the assessment of the economic motivation to invest in the social determinants of health and socially determined health inequities, including what the major challenges are in this assessment. It illustrates the extent to which an economic argument can be made in favour of investment in 3 major social determinants of health areas: education, social protection, and urban development and infrastructure. It describes whether education policy, social protection, and urban development, housing and transport policy can act as health policy"--

The first comprehensive guide to natural experiments, providing an ideal introduction for scholars and students.

The Deputy Chief Marshal Passbook(R) prepares you for your test by allowing you to take practice exams in the subjects you need to study.

Rosen's Discrete Mathematics and its Applications presents a precise, relevant, comprehensive approach to mathematical concepts. This world-renowned best-selling text was written to accommodate the needs across a variety of majors and departments, including mathematics, computer science, and engineering. As the market leader, the book is highly flexible, comprehensive and a proven pedagogical teaching tool for instructors.

The #1 guide to the principles and clinical applications of evidence-based medicine has just gotten better! A Doody's Core Title ESSENTIAL PURCHASE for 2011! No other resource helps you to put key evidence-based medicine protocols into daily clinical practice better than Users' Guides to the Medical Literature. An instant classic in its first edition, this detailed, yet highly readable reference demystifies the statistical, analytical, and clinical principles of evidence-based medicine, giving you a hands-on, practical resource that no other text can match. Here, you'll learn how to distinguish solid medical evidence from poor medical evidence, devise the best search strategies for each clinical question, critically appraise the medical literature, and optimally tailor evidence-based medicine for each patient. The new second edition of this landmark resource is now completely revised and refreshed throughout, with expanded coverage of both basic and advanced issues in using evidence-based medicine in clinical practice. FEATURES: Completely revised and updated to reflect the enormous expansion in medical research and evidence-based resources since the first edition

Innovative organization guides you from the fundamentals of using the medical literature to the more advanced strategies and skills for use in every day patient care situations Abundant and current real-world examples drawn from the medical literature are woven throughout, and include important related principles and pitfalls in using medical literature in patient care decisions Practical focus on the key issues in evidence-based practice: What are the results? Are the results valid? How to I apply to results to the care of my patients? More than 60 internationally recognized editors and contributors from the U.S., Canada, South America, Europe, and Asia -- the best of the best in the discipline NEW coverage on how to: --Avoid being misled by biased presentations of research findings --Interpret the significance of clinical trials that are discontinued early --Influence clinician behavior to improve patient care --Apply key strategies for teaching evidence-based medicine Also look for JAMAevidence.com, a new interactive database for the best practice of evidence based medicine.

This book presents methods of solving problems in three areas of elementary combinatorial mathematics: classical combinatorics, combinatorial arithmetic, and combinatorial geometry. Brief theoretical discussions are immediately followed by carefully worked-out examples of increasing degrees of difficulty and by exercises that range from routine to rather challenging. The book features approximately 310 examples and 650 exercises.

More than two decades after Michael Rutter (1987) published his summary of protective processes associated with resilience, researchers continue to report definitional ambiguity in how to define and operationalize positive development under adversity. The problem has been partially the result of a dominant view of resilience as something individuals have, rather than as a process that families, schools, communities and governments facilitate. Because resilience is related to the presence of social risk factors, there is a need for an ecological interpretation of the construct that acknowledges the importance of people's interactions with their environments. The Social Ecology of Resilience provides evidence for this ecological understanding of resilience in ways that help to resolve both definition and measurement problems. More than 100,000 entrepreneurs rely on this book for detailed, step-by-step instructions on building successful, scalable, profitable startups. The National Science Foundation pays hundreds of startup teams each year to follow the process outlined in the book, and it's taught at Stanford, Berkeley, Columbia and more than 100 other leading universities worldwide. Why? The Startup Owner's Manual guides you, step-by-step, as you put the Customer Development process to work. This method was created by renowned Silicon Valley startup expert Steve Blank, co-creator with Eric Ries of the "Lean Startup" movement and tested and refined by him for more than a decade. This 608-page how-to guide includes over 100 charts, graphs, and diagrams, plus 77 valuable checklists that guide you as you drive your company toward profitability. It will help you:

- Avoid the 9 deadly sins that destroy startups' chances for success
- Use the Customer Development method to bring your business idea to life
- Incorporate the Business Model Canvas as the organizing principle for startup hypotheses
- Identify your customers and determine how to "get, keep and grow" customers profitably
- Compute how you'll drive your startup to repeatable, scalable profits.

The Startup Owner's Manual was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release

and should not be considered a new or updated product.

First published in 1997. Routledge is an imprint of Taylor & Francis, an informa company.

Written as a self-paced training course, the books objective is to provide the professional engineer with a practical resource on the design and analysis of composite structures. With the recent high utilization of composite materials in aerospace, automotive, civil, marine, and recreational structures; comes the high demand for engineers with composites design and analysis knowledge and experience. However, the availability of engineers with the required knowledge and experience is difficult to obtain. Therefore, many engineers are faced with the daunting task of performing composites design and analysis projects with little background in composites design and analysis. The book is aimed at helping those engineers gain practical composites design and analysis knowledge in as short a time as possible. The book focuses on obtaining a fundamental understanding of the basic equations of composite material behavior which drive composite structures design. After completing the training course provided by the book, practicing engineers will walk away with the latest knowledge available to design weight-efficient composite structures.

This book is a printed edition of the Special Issue "Hopf Algebras, Quantum Groups and Yang-Baxter Equations" that was published in Axioms

CIOMS, in association with the World Health Organization, started its work on ethics in health-related research in the late 1970s. Accordingly, CIOMS set out, in cooperation with WHO, to prepare guidelines to indicate how the ethical principles set forth in the Declaration of Helsinki of the World Medical Association, could be effectively applied, particularly in low-resource settings, given their socio-economic circumstances, laws and regulations, and executive and administrative arrangements. Since then revised editions of the CIOMS ethical guidelines were published in 1993 and 2002. New developments in research have prompted CIOMS to again revise their ethical guidelines. The result is now available in this new publication. In the new 2016 version of the ethical guidelines, CIOMS provides answers to a number of pressing issues in research ethics. The Council does so by stressing the need for research having scientific and social value, by providing special guidelines for health-related research in low-resource settings, by detailing the provisions for involving vulnerable groups in research and for describing under what conditions biological samples and health-related data can be used for research. Progress towards a world where all can enjoy optimal health and health care is crucially dependent on all kinds of research including research involving humans. Involving humans in medical research is necessary to improve the knowledge base on which medicine should be based. At the same time, individuals participating in health-related research have individual human rights and have a right to be protected against the risks that research may bring to them. The tension between these two considerations has led the medical community to endorse ethical guidelines for health-related research. Research Ethics Committees can use these guidelines to evaluate whether a given research protocol is ethically acceptable or not.

Lecturers - request an e-inspection copy of this text or contact your local SAGE representative to discuss your course needs. Watch Andy Field's introductory video to Discovering Statistics Using R Keeping the uniquely humorous and self-

deprecating style that has made students across the world fall in love with Andy Field's books, *Discovering Statistics Using R* takes students on a journey of statistical discovery using R, a free, flexible and dynamically changing software tool for data analysis that is becoming increasingly popular across the social and behavioural sciences throughout the world. The journey begins by explaining basic statistical and research concepts before a guided tour of the R software environment. Next you discover the importance of exploring and graphing data, before moving onto statistical tests that are the foundations of the rest of the book (for example correlation and regression). You will then stride confidently into intermediate level analyses such as ANOVA, before ending your journey with advanced techniques such as MANOVA and multilevel models. Although there is enough theory to help you gain the necessary conceptual understanding of what you're doing, the emphasis is on applying what you learn to playful and real-world examples that should make the experience more fun than you might expect. Like its sister textbooks, *Discovering Statistics Using R* is written in an irreverent style and follows the same ground-breaking structure and pedagogical approach. The core material is augmented by a cast of characters to help the reader on their way, together with hundreds of examples, self-assessment tests to consolidate knowledge, and additional website material for those wanting to learn more. Given this book's accessibility, fun spirit, and use of bizarre real-world research it should be essential for anyone wanting to learn about statistics using the freely-available R software.

The bestselling classic that launched 10,000 startups and new corporate ventures - *The Four Steps to the Epiphany* is one of the most influential and practical business books of all time. *The Four Steps to the Epiphany* launched the Lean Startup approach to new ventures. It was the first book to offer that startups are not smaller versions of large companies and that new ventures are different than existing ones. Startups search for business models while existing companies execute them. The book offers the practical and proven four-step Customer Development process for search and offers insight into what makes some startups successful and leaves others selling off their furniture. Rather than blindly execute a plan, *The Four Steps* helps uncover flaws in product and business plans and correct them before they become costly. Rapid iteration, customer feedback, testing your assumptions are all explained in this book. Packed with concrete examples of what to do, how to do it and when to do it, the book will leave you with new skills to organize sales, marketing and your business for success. If your organization is starting a new venture, and you're thinking how to successfully organize sales, marketing and business development you need *The Four Steps to the Epiphany*. Essential reading for anyone starting something new. *The Four Steps to the Epiphany* was originally published by K&S Ranch Publishing Inc. and is now available from Wiley. The cover, design, and content are the same as the prior release and should not be considered a new or updated product.

Literature is not only about aesthetics, but also almost equally about the successful marketing of an author and his literary works. Ever since the two great Russian authors, Leonid Andreev and Vladimir Nabokov, created their own literary capital, cultural merchants have been preoccupied with the promotion of their respective posthumous legacies, maintaining the intricate network of personal interests that drive the preservation of literary reputations.

The use of formal numerical optimization methods for the design of gears is investigated. To achieve this, computer codes were developed for the analysis of spur gears and spiral bevel gears. These codes calculate the life, dynamic load, bending strength, surface durability, gear weight and size, and various geometric parameters. It is necessary to calculate all such important responses because they all represent competing requirements in the design process. The codes developed here were written in subroutine form and coupled to the COPES/ADS general purpose optimization program. This code allows the user to define the optimization problem at the time of program execution. Typical design variables include face width, number of teeth and diametral pitch. The user is free to choose any calculated response as the design objective to minimize or maximize and may impose lower and upper bounds on any calculated responses. Typical examples include life maximization with limits on dynamic load, stress, weight, etc. or minimization of weight subject to limits on life, dynamic load, etc. The research codes were written in modular form for easy expansion and so that they could be combined to create a multiple reduction optimization capability in future. Vanderplaats, G. N. and Chen, Xiang and Zhang, Ning-Tian Unspecified Center...

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