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Anorectal manometry represents the most precise mode of study of the contractile function of the anal sphincter system and the pelvic floor. More recently developed manometric instruments have attempted to identify the normal pressure thresholds and the parameters defining the various pathological frameworks. Unfortunately, the complexity of the methods, the instruments used and the data supplied has progressively distanced anorectal manometric study from clinical practice and reality, reducing both its effective use and the real utility. Clinical Anorectal Manometry represents a true innovation in the panorama of diagnostics of the pelvic floor. The simplicity of use and the immediate interpretation of the results make it the only instrument able to provide the fundamentally available data during the patient's examination in the clinic, enabling the clinical operator to make a rapid analysis and suggest the most appropriate treatment. The present manual provides the interpretative basis for clinical anorectal manometry and is a practical guide to the understanding of the pressure values that correspond to the fundamental activity of the sphincter muscle group and the pelvic floor.

This monograph provides insight and fundamental understanding into the feedback control of nonlinear and hybrid process systems. It presents state-of-the-art methods for the synthesis of nonlinear feedback controllers for nonlinear and hybrid systems with uncertainty, constraints and time-delays with numerous applications, especially to chemical processes. It covers both state feedback and output feedback (including state estimator design) controller designs. Control of Nonlinear and Hybrid Process Systems includes numerous comments and remarks providing insight and fundamental understanding into the feedback control of nonlinear and hybrid systems, as well as applications that demonstrate the implementation and effectiveness of the presented control methods. The book includes many detailed examples which can be easily modified by a control engineer to be tailored to a specific application. This book is useful for researchers in control systems theory, graduate students pursuing their degree in control systems and control engineers.

Life expectancy in countries of Central and Eastern Europe is substantially shorter than in Western Europe, and a similar divide exists in self-rated health. This exhaustive study of populations in seven Central and European countries - Russia, Lithuania, Latvia, Estonia, Poland, Czech Republic and Hungary - examines the social and psychosocial determinants of this divide.

Practitioners and graduate students of public health and social psychology will find this an invaluable resource.

From the late third millennium BCE on, the adventures of Gilgamesh were well known throughout Babylonia and Assyria, and the discovery of fragmentary Akkadian-language fragments of versions of his tale at Bogazkoy, Ugarit, Emar, and Megiddo in Palestine demonstrates that tales of the hero's exploits had reached the periphery of the cuneiform world already in the Late Bronze Age. In addition to the manuscripts in the Hittite language recounting Gilgamesh's adventures, two Akkadian versions and fragmentary Hurrian renderings have turned up at the Hittite capital Hattusa. This volume offers an edition of the material from Bogazkoy, which has been of particular importance to modern scholars in reconstructing the epic and analyzing its development, since it documents a period in the history of the narrative's progressive restructuring and elaboration for which very few textual witnesses have yet been recovered from Mesopotamia itself. And it is this very Middle Babylonian or Kassite period to which scholarly consensus assigns the composition of the final, canonical, version of the epic.

Olympiad mathematics is not a collection of techniques of solving mathematical problems but a system for advancing mathematical education. This book is based on the lecture notes of the mathematical Olympiad training courses conducted by the author in Singapore. Its scope and depth not only covers and beyond the usual syllabus, but introduces a variety of concepts and methods in modern mathematics as well. In each lecture, the concepts, theories and methods are taken as the core. The examples serve to explain and enrich their intentions and to indicate their applications. Besides, appropriate number of test questions is available for the readers' practice and testing purpose. Their detailed solutions are also conveniently provided. The examples are not very complicated so readers can easily understand. There are many real competition questions included which students can use to verify their abilities. These test questions originate from many countries all over the world. This book will serve as a useful textbook of mathematical Olympiad courses, a self-study lecture notes for students, or as a reference book for related teachers and researchers.

This innovative new book examines government approaches to Public-private partnership (PPP) formation. It explores the management experience and challenges that key stakeholders involved in PPP governance face in Russia and Kazakhstan. An increasingly common method of delivering public services, PPP deployment in these two countries is still in its infancy, beginning only in 2005. Public-Private Partnerships highlights how the governments of Russia and Kazakhstan understand the nature of partnerships, which contextual features drive PPP formation and why these two nations have selected concession as the principal PPP form. The contributors provide comprehensive coverage of the management issues that present challenges in PPP delivery, including partner interaction concerns, opportunistic behaviour and approaches to risk management. The authors also discuss the legal and regulatory impediments to PPP development and the PPP critical success factors.

The impetus for this book arose out of my previous book, *The Evolution of Life Histories* (Roff, 1992). In that book I presented a single chapter on quantitative genetic theory. However, as the book was concerned with the evolution of life histories and traits connected to this, the presence of quantitative genetic variation was an underlying theme throughout. Much of the focus was placed on optimality theory, for it is this approach that has proven to be extremely successful in the analysis of life history variation. But quantitative genetics cannot be ignored, because there are some questions for which optimality approaches are inappropriate; for example, although optimality modeling can address the question of the maintenance of phenotypic variation, it cannot say anything about genetic variation, on which further evolution clearly depends. The present book is, thus, a natural extension of the first. I have approached the problem not from the point of view of an animal or plant breeder but from that of one interested in understanding the evolution of quantitative traits in wild populations. The subject is large with a considerable body of theory: I generally present the assumptions underlying the analysis and the results, giving the relevant references for those interested in the intervening mathematics. My interest is in what quantitative genetics tells me about evolutionary processes; therefore, I have concentrated on areas of research most relevant to field studies.

As a reflection of the change in the UK's economic strategy in recent years, this revised edition considers public policy in greater depth than previously with the inclusion of a chapter on welfare economics, analysis of trends in development and location and the

effects of market changes.

1922: Literature, Culture, Politics examines key aspects of culture and history in 1922, a year made famous by the publication of several modernist masterpieces, such as T. S. Eliot's *The Waste Land* and James Joyce's *Ulysses*. Individual chapters written by leading scholars offer new contexts for the year's significant works of art, philosophy, politics, and literature. 1922 also analyzes both the political and intellectual forces that shaped the cultural interactions of that privileged moment. Although this volume takes post-World War I Europe as its chief focus, American artists and authors also receive thoughtful consideration. In its multiplicity of views, 1922 challenges misconceptions about the 'Lost Generation' of cultural pilgrims who flocked to Paris and Berlin in the 1920s, thus stressing the wider influence of that momentous year.

Many people who are interested in business never learn more than the basics because they are either intimidated by the complexity of the business lexicon or they have never been exposed to the common features and principles that form the geography of the business world. *Encyclopedia of American Business* is an easy-to-use guide to the nuts and bolts of business jargon, explaining difficult ideas in straightforward language. Designed especially for non-specialist, students, and general readers, the encyclopedia helps novices understand the complex and sometimes confusing concepts and terms that are used in business. Five general areas of business are covered: accounting, banking, finance, marketing, and management. Terms, concepts, and associations that one is most likely to encounter in business are the focus of the volume, making it a great place to start learning about how businesses operate and what the primary and different features of specific business-related functions or ideas mean. Entries include annual report, balanced budget, capital, deflation, exchange rate, joint ventures, marketing concept, mutual funds, profit sharing, and zero-sum game.

Dan Gookin gets you up to speed so you can get down to work with all the new features of Word 2010! Bestselling and quintessential *For Dummies* author Dan Gookin employs his usual fun and friendly candor while walking you through the spectrum of new features of Word 2010. Completely in tune with the needs of the beginning Word user, Gookin shows you how to use Word quickly and efficiently so that you can spend more time working on your projects and less time trying to figure out how to make Word perform the tasks you need it to do. This newest edition of *Word For Dummies* explains how to navigate the user interface and take advantages of file formats, and skips the unnecessary jargon. Unparalleled author Dan Gookin applies his beloved *For Dummies* writing style to introduce you to all the features and functions of Word 2010. Escorts you through the capabilities of Word 2010 without weighing you down with unnecessary technical jargon. Deciphers the user interface and shows you how to take advantage of the file formats. The word on the street is that *Word 2010 For Dummies* is a must-read!

Chemistry, science, stoichiometry, thermodynamics, organic chemistry.

The 104th volume in this series for organic chemists in academia and industry presents critical discussions of widely used organic reactions or particular phases of a reaction. The material is treated from a preparative viewpoint, with emphasis on limitations, interfering influences, effects of structure and the selection of experimental techniques. The work includes tables that contain all possible examples of the reaction under consideration. Detailed procedures illustrate the significant modifications of each method. This collective work identifies the latest developments in the field of the automatic processing and analysis of digital color images. For researchers and students, it represents a critical state of the art on the scientific issues raised by the various steps constituting the chain of color image processing. It covers a wide range of topics related to computational color imaging, including color filtering and segmentation, color texture characterization, color invariant for object recognition, color and motion analysis, as well as color image and video indexing and retrieval. Contents 1. Color Representation and Processing in Polar Color Spaces, Jesús Angulo, Sébastien Lefèvre and Olivier Lezoray. 2. Adaptive Median Color Filtering, Frédérique Robert-Inacio and Eric Dinet. 3. Anisotropic Diffusion PDEs for Regularization of Multichannel Images: Formalisms and Applications, David Tschumperlé. 4. Linear Prediction in Spaces with Separate Achromatic and Chromatic Information, Olivier Alata, Imtihan Qazi, Jean-Christophe Burie and Christine Fernandez-Maloigne. 5. Region Segmentation, Alain Clément, Laurent Busin, Olivier Lezoray and Ludovic Macaire. 6. Color Texture Attributes, Nicolas Vandembroucke, Olivier Alata, Christèle Lecomte, Alice Porebski and Imtihan Qazi. 7. Photometric Color Invariants for Object Recognition, Damien Muselet. 8. Color Key Point Detectors and Local Color Descriptors, Damien Muselet and Xiaohu Song. 9. Motion Estimation in Color Image Sequences, Bertrand Augereau and Jenny Benois-Pineau.

Building on the success of previous editions, *Anaesthesia and Intensive Care A-Z* (Fifth edition) remains the most comprehensive single volume source of relevant aspects of pharmacology, physiology, anatomy, physics, statistics, medicine, surgery, general anaesthetic practice, intensive care, equipment, and the history of anaesthesia and intensive care. Originally prepared as essential reading for candidates for the Fellowship of the Royal College of Anaesthetists and similar exams, this fully updated edition will also prove as invaluable as ever for all anaesthetists and critical care physicians, as well as operating department practitioners and specialist nurses. All entries have been carefully reviewed and new ones added to reflect the latest advances and the evolving field breadth. This edition includes a structured checklist of entries, ordered by curriculum core topic area, as an additional new aid for those planning their revision. Also for the first time, this fifth edition now comes with complementary access to the complete electronic version of the book. It is now easy to use the content just as you need it, anytime, anywhere - whether online or offline, on your laptop, tablet or mobile device. Succinct, clear text and diagrams make quick reference easy. Entries arranged alphabetically, with extensive cross-referencing to ensure full understanding of topics. Thoroughly revised throughout to reflect the latest advances in the field. New exam preparation checklist ordered by core topics, for more effective use of revision time and enhanced confidence. More flexible and practical than ever before, with anytime, anywhere electronic access. Your eBook is much more than just 'pictures of pages': Fully searchable, with main category entries prioritised in search returns. Customise your page views. Highlight and make searchable notes. Print and copy-and-paste with bibliographic support. Download to multiple devices, including desktop and mobile. Additional line diagrams further enhance topic descriptions. Contains a wide expansion of new entries and revisions of existing ones to reflect ongoing advances in the field. New exam preparation checklist ordered by core topics, for more effective use of revision time and enhanced confidence. Comes with complete eBook version - more flexible and practical than ever before, with anytime, anywhere electronic access. Your eBook is much more than just 'pictures of pages': Fully searchable, with main category entries prioritised in search returns. Customise your page views. Highlight and make searchable notes. Print and copy-and-paste with bibliographic support. Download to multiple devices, including desktop and mobile. Presents literary criticism on the works of classical and medieval philosophers, poets, playwrights, political leaders, scientists, mathematicians, and writers from other genres. Critical essays are selected from leading sources, including published journals, magazines, books, reviews, and scholarly papers. Criticism includes early views from the author's lifetime as well as later views,

including extensive collections of contemporary analysis.

The New Architecture of Science explores how the architecture of advanced nanoscience labs affects the way scientists think, conduct experiments, interact and collaborate. The unique design of the National Graphene Institute in Manchester, UK sheds light on the new generation of 21st century science laboratories. Weaving together two tales of this building, lead scientist and one of the designers, Kostya Novoselov, and architectural anthropologist, Alben Yaneva, combine an analysis of its distinctive design features with ethnographic observation of the practices of scientists, facility managers, technicians, administrators and house service staff. Capturing simultaneously the complex technical infrastructure and the variability of human experiences that it facilitates, contemporary laboratory buildings are shown to be vital settings for the active shaping of new research habits and ways of thinking, ultimately leading to discovery and socio-technical innovations. [Related Link\(s\)](#)

THERE is a river so long and wide that it is the pride of our continent; a very Father of Waters. It draws many other streams into its basin and forms the largest drainage system in the world. In early days this Great River was almost unknown. A few savages had paddled their skiffs upon it. Curious tales were told about it. Monsters guarded it. Sorcerers lived in its caverns. Mystic creatures both good and bad swam through its rapids. After the New World was discovered some daring French explorers longing for adventure traveled into those wilds to see if they could find the hidden waterway of Indian romance. One of them, a bold trader of Canada, in his scarlet coat and three-cornered hat, ventured into the farthest-away channels. Only one of his companions, a boy, came back with him to present the map he drew of the southern reaches of the mighty stream. Next, a gray-frocked Belgian friar, sandaled and shaven of crown, set down on parchment the northern trend of the same river. His goose quill wrote the name of his young oarsman who sang to appease their Indian captors as white men and red rode the waves together.

The latest edition of one of the bestselling Microsoft Office books of all time! Spend less time figuring out Word, Excel, PowerPoint, Outlook, and Access and more time working on actual projects with this new edition of Office 2010 For Dummies. Filled with straightforward, friendly instruction, this book gets you thoroughly up to speed, and it actually makes doing Office work fun! First learn all the basics, then how to add more bells and whistles, including how to spice up your Word documents, edit Excel spreadsheets and create formulas, add sound to your PowerPoint presentation, and much more. Helps you harness the power of Microsoft Office 2010 and all of its new functionality; the book covers Word, Excel, PowerPoint, Outlook, and Access Explains and instructs in the straightforward, friendly, For Dummies style that makes instruction more accessible and skill-building easier Covers typing and formatting text in Word and spicing up your documents Shows you how to navigate and edit an Excel spreadsheet, create formulas, and chart and analyze Excel data Demonstrates how to create a PowerPoint presentation and add color, sound, and pictures Explores Outlook, including configuring e-mail, storing contacts, organizing tasks, scheduling your time, and setting appointments Delves into designing Access databases, including editing, modifying, searching, sorting, and querying; also covers viewing and printing reports, and more Be ready to take full advantage of Microsoft Office 2010 with this fun and easy guide.

"This book provides a unique perspective on the development, challenges, and needs of women as they navigate through life. It includes culturally diverse case studies, interventions, and best practices for counselors working with women across the lifespan. Topics include normative developmental issues, relationships, self-esteem, body image, addictions, parenting, caregiving, and loss"--

The programme for excellence set up by the FA is working and more young technically adroit players are being produced. This book is based on the idea that the new batch of young players should know how to apply their techniques to best effect.

This volume is the second in the series of final reports on the work of the Kavousi Project and the first volume on the cleaning (1982-1984) and excavations (1987-1992) at the mountain sites located above the modern village of Kavousi in eastern Crete. These sites, Vronda and the Kastro, shed light on the Early Iron Age, the transitional period in Cretan history known popularly as the Dark Ages, thereby elucidating the way of life of the people who lived in the area of Kavousi during that period and how their culture changed over time. Kavousi IIA is devoted to the excavation of material from the Late Minoan IIIC settlement at Vronda, particularly the houses on the summit of the Vronda ridge (Buildings A-B, C-D, J-K, and Q), along with earlier (Building P) and later (Building R) structures around them.

This collection of essays and reviews represents the most significant and comprehensive writing on Shakespeare's A Comedy of Errors. Miola's edited work also features a comprehensive critical history, coupled with a full bibliography and photographs of major productions of the play from around the world. In the collection, there are five previously unpublished essays. The topics covered in these new essays are women in the play, the play's debt to contemporary theater, its critical and performance histories in Germany and Japan, the metrical variety of the play, and the distinctly modern perspective on the play as containing dark and disturbing elements. To compliment these new essays, the collection features significant scholarship and commentary on The Comedy of Errors that is published in obscure and difficulty accessible journals, newspapers, and other sources. This collection brings together these essays for the first time.

For all fluid mechanics, hydraulics, and related courses in Mechanical, Manufacturing, Chemical, Fluid Power, and Civil Engineering Technology and Engineering programs. The leading applications-oriented approach to engineering fluid mechanics is now in full color, with integrated software, new problems, and extensive new coverage. Now in full color with an engaging new design, Applied Fluid Mechanics, Seventh Edition, is the fully updated edition of the most popular applications-oriented approach to engineering fluid mechanics. It offers a clear and practical presentation of all basic principles of fluid mechanics (both statics and dynamics), tying theory directly to real devices and systems used in mechanical, chemical, civil, and environmental engineering. The 7th edition offers new real-world example problems and integrates the use of world-renowned PIPE-FLO® software for piping system analysis and design. It presents new procedures for problem-solving and design; more realistic and higher quality illustrations; and more coverage of many topics, including hose, plastic pipe, tubing, pumps, viscosity measurement devices, and computational fluid mechanics. Full-color images and color highlighting make charts, graphs, and tables easier to interpret organize narrative material into more manageable "chunks," and make all of this text's content easier to study. Teaching and Learning Experience This applications-oriented introduction to fluid mechanics has been redesigned and improved to be more engaging, interactive, and pedagogically effective. Completely redesigned in full color, with additional pedagogical features, all designed to engage today's students: This edition contains many new full-color images, upgraded to improve realism, consistency, graphic quality, and relevance. New pedagogical features have been added to help students explore ideas more widely and review material more efficiently. Provides more hands-on practice and real-world applications, including new problems and software: Includes access to the popular PIPE-FLO® and Pump-Base® software packages, with detailed usage instructions; new real-world

example problems; and more supplementary problems Updated and refined to reflect the latest products, tools, and techniques: Contains updated data and analysis techniques, improved problem solving and design techniques, new content on many topics, and extensive new references.

This book grounds deliberative democratic theory in a more refined understanding of deliberative practice, in particular when dealing with intractable moral disagreement regarding novel technologies. While there is an ongoing, vibrant debate about the theoretical merits of deliberative democracy on the one hand, and more recently, empirical studies of specific deliberative exercises have been carried out, these two discussions fail to speak to one another. Debates about animal and plant biotechnology are examined as a paradigmatic case for intractable disagreement in today's pluralistic societies. This examination reveals that the disagreements in this debate are multi-faceted and multi-dimensional and can often be traced to fundamental disagreements about values or worldviews. "One of the acute insights to emerge from this examination is that deliberation can serve different purposes vis-à-vis different types of problem. In the case of deeply unstructured problems, like the modern biotechnology debate, the aim of inclusion is more appropriate than the aim of consensus. This book highlights the importance of political culture and broader institutional settings in shaping the capacity and propensity of citizens to engage in deliberation and the degree to which governments are prepared to relinquish authority to deliberative mini-publics." Robyn Eckersley, University of Melbourne, Australia

This kit offers a firsthand look at creating a custom island Poptropica style. Written by the popular Web site's creative team, this unique how-to book guides fans through every step in the process of creating their own Poptropica island, with coloring and connect-the-dot activities. Illustrations. Consumable.

This is a book about real-world design techniques for analog circuits: amplifiers, filters, injection-locked oscillators, phase-locked loops, transimpedance amplifiers, group delay correction circuits, notch filters, and spectrum regrowth in digital radio frequency (RF) transmitters, etc. The book offers practical solutions to analog and RF problems, helping the reader to achieve high-performance circuit and system design. A variety of issues are covered, such as: How to flatten group delay of filters How to use reciprocity to advantage How to neutralize a parasitic capacitance How to deepen a notch by adding only two components to the network How to demodulate a signal using the secant waveform and its benefit How to flatten the frequency response of a diode detector When to use a transimpedance amplifier and how to maximize its performance How to recover non-return-to-zero (NRZ) data when alternating current (AC) coupling is required Why phase noise corrupts adjacent communication channels Simple method to prevent false locking in phase-locked loops How to improve the bandwidth of amplification by using current conveyors A very simple impedance matching technique requiring only one reactive component How to use optimization Quadrature distortion and cross-rail interference This book is meant to be a handbook (or a supplemental textbook) for students and practitioners in the design of analog and RF circuitry with primary emphasis on practical albeit sometimes unorthodox circuit realizations. Equations and behavioral simulations result in an abundance of illustrations, following a "words and pictures" easy-to-understand approach. Teachers will find the book an important supplement to a standard analog and RF course, or it may stand alone as a textbook. Working engineers may find it useful as a handbook by bookmarking some of the step-by-step procedures, e.g., the section on simplified impedance matching or group delay flattening.

The fifth edition of "Numerical Methods for Engineers" continues its tradition of excellence. Instructors love this text because it is a comprehensive text that is easy to teach from. Students love it because it is written for them--with great pedagogy and clear explanations and examples throughout. The text features a broad array of applications, including all engineering disciplines. The revision retains the successful pedagogy of the prior editions. Chapra and Canale's unique approach opens each part of the text with sections called Motivation, Mathematical Background, and Orientation, preparing the student for what is to come in a motivating and engaging manner. Each part closes with an Epilogue containing sections called Trade-Offs, Important Relationships and Formulas, and Advanced Methods and Additional References. Much more than a summary, the Epilogue deepens understanding of what has been learned and provides a peek into more advanced methods. Approximately 80% of the end-of-chapter problems are revised or new to this edition. The expanded breadth of engineering disciplines covered is especially evident in the problems, which now cover such areas as biotechnology and biomedical engineering. Users will find use of software packages, specifically MATLAB and Excel with VBA. This includes material on developing MATLAB m-files and VBA macros.

A manual providing anesthesiologists with a how-to approach, based both on scientific principles and on the authors' clinical experience at the Hospital for Joint Diseases Orthopaedic Institute, New York City. The volume contains 15 chapters covering rheumatological disorders and other medical conditions, trauma, the fractured hip, total joint replacement, thromboembolism, regional anesthesia, tourniquets, special considerations in surgery of the extremities, ambulatory surgery, pediatric orthopedics, scoliosis, spinal surgery, orthopedic oncology, postoperative pain, and common pain syndromes. Annotation copyright by Book News, Inc., Portland, OR

A comprehensive account of Jewish life in a country that carries the legacy of being at the epicenter of the Holocaust. Originally published in German in 2012, this comprehensive history of Jewish life in postwar Germany provides a systematic account of Jews and Judaism from the Holocaust to the early 21st Century by leading experts of modern German-Jewish history. Beginning in the immediate postwar period with a large concentration of Eastern European Holocaust survivors stranded in Germany, the book follows Jews during the relative quiet period of the 50s and early 60s during which the foundations of new Jewish life were laid. Brenner's volume goes on to address the rise of anti-Israel sentiments after the Six Day War as well as the beginnings of a critical confrontation with Germany's Nazi past in the late 60s and early 70s, noting the relatively small numbers of Jews living in Germany up to the 90s. The contributors argue that these Jews were a powerful symbolic presence in German society and sent a meaningful signal to the rest of the world that Jewish life was possible again in Germany after the Holocaust. "This volume, which illuminates a multi-faceted panorama of Jewish life after 1945, will remain the authoritative reading on the subject for the time to come." —Frankfurter Allgemeine Zeitung "An eminently readable work of history that addresses an important gap in the scholarship and will appeal to specialists and interested lay readers alike." —Reading Religion "Comprehensive, meticulously researched, and beautifully translated." —CHOICE

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