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The Crusades and the Inquisition, two separate historical events, are more closely related than most people realize. It is no accident that the Inquisition followed quickly on the heels of the Crusades, just as it is no coincidence that the Crusades as well as the Inquisition have been greatly misunderstood over the centuries, with popular historians focusing on and, indeed, exaggerating the "atrocities" committed by Christian armies and Inquisitors. Recent research has reversed many of these misconceptions, and the results will be enlightening to anyone curious about this much-disputed period in Christian history. In this unique book, which combines discussion of both events and shows how they are related, Fr. John Vidmar, OP, offers a magisterial synthesis of the latest research and brings his own extensive knowledge as a historian of this era to provide an accessible, eminently readable book that will be indispensable to students and average readers alike. This text provides a comprehensive review of the ethical issues involved with the development, evaluation, and introduction of new treatments of gastrointestinal diseases. How several landmark surgical innovations were developed are described to show the challenges faced, and the ethical dilemmas these innovators dealt with. The challenges of dealing with regulatory issues, and how to work with industry partners, and investors when working on a new therapy is described. Once a new technology has been brought to the market, standards need to be developed regarding the training, credentialing and adoption of the new technology. There are insufficient standards of how to balance the desire to provide patients the latest therapy with the obligation that patients receive informed consent about the new technology, and the relationship that the physician may have had with product development. The book describes the national perspective of paying for new technology, and provides one insurance company's approach to the introduction of innovative therapy. The Sages Manual Ethics of Surgical Innovation will be a resource for surgeons, researchers and health policy personnel to understand the ethical issues related to the development, introduction and adoption of innovative therapies for gastrointestinal diseases. Although the context for discussion is the application of innovation to gastrointestinal disease, the ethical issues are applicable to any discussion of innovative medical or procedural therapies. This book is the first of its kind to provide a large collection of bioinformatics problems with accompanying solutions. Notably, the problem set includes all of the problems offered in Biological Sequence Analysis (BSA), by Durbin et al., widely

adopted as a required text for bioinformatics courses at leading universities worldwide. Although many of the problems included in BSA as exercises for its readers have been repeatedly used for homework and tests, no detailed solutions for the problems were available. Bioinformatics instructors had therefore frequently expressed a need for fully worked solutions and a larger set of problems for use on courses. This book provides just that: following the same structure as BSA and significantly extending the set of workable problems, it will facilitate a better understanding of the contents of the chapters in BSA and will help its readers develop problem-solving skills that are vitally important for conducting successful research in the growing field of bioinformatics. All of the material has been class-tested by the authors at Georgia Tech, where the first ever M.Sc. degree program in Bioinformatics was held. Mindfulness includes qualities of mind and heart; it provides a strong foundation for other social and emotional skills. Mindfulness is making inroads into classrooms, as teachers seek ways to center and focus their own attention as well as that of their distracted students. Trish Broderick describes the particular relevance of mindfulness to the teaching of adolescent students, including its potential to alleviate stress, foster motivation, engagement, and compassion—and ultimately, to improve both learning and social relationships. Her book is a guide to applying mindfulness to day-to-day classroom challenges; every chapter contains authentic vignettes of secondary teachers and students, brief practices to try, and a set of takeaway points and reflection questions. Materials Science on CD-ROM has been designed by the MATTER team for teachers and students of materials science, metallurgy, engineering, and other related disciplines. This collection of completely interactive learning modules - created to make use of those functions best performed by computer-makes it easier to understand the complex concepts of this challenging discipline. Designed to complement traditional teaching and learning methods, this CD-ROM fits well with the current selection of textbooks available and serves as a stimulating resource for teachers explaining new concepts. Materials Science on CD-ROM guides students through the key concepts at their own pace. The "hands on" approach to learning can accelerate the understanding of materials science and prove extremely useful in reviewing for exams. Its highly interactive facilities allow students to test their own understanding - for example, they can see how graphs and processes change by selecting different parameters. They can also test their knowledge

by answering the questions that appear within each module. Graphical animation and hypertext links between related screens and topics further enhance these features. "This book addresses e-learning patterns in software development, providing an accessible language to communicate sophisticated knowledge and important research methods and results"--Provided by publisher. The record of each copyright registration listed in the Catalog includes a description of the work copyrighted and data relating to the copyright claim (the name of the copyright claimant as given in the application for registration, the copyright date, the copyright registration number, etc.). Recent developments in model-predictive control promise remarkable opportunities for designing multi-input, multi-output control systems and improving the control of single-input, single-output systems. This volume provides a definitive survey of the latest model-predictive control methods available to engineers and scientists today. The initial set of chapters present various methods for managing uncertainty in systems, including stochastic model-predictive control. With the advent of affordable and fast computation, control engineers now need to think about using "computationally intensive controls," so the second part of this book addresses the solution of optimization problems in "real" time for model-predictive control. The theory and applications of control theory often influence each other, so the last section of Handbook of Model Predictive Control rounds out the book with representative applications to automobiles, healthcare, robotics, and finance. The chapters in this volume will be useful to working engineers, scientists, and mathematicians, as well as students and faculty interested in the progression of control theory. Future developments in MPC will no doubt build from concepts demonstrated in this book and anyone with an interest in MPC will find fruitful information and suggestions for additional reading. Madison Smartt Bell to John Edgar Wideman. In its thousands of years of history, mathematics has made an extraordinary career. It started from rules for bookkeeping and computation of areas to become the language of science. Its potential for decision support was fully recognized in the twentieth century only, vitally aided by the evolution of computing and communication technology. Mathematical optimization, in particular, has developed into a powerful machinery to help planners. Whether costs are to be reduced, profits to be maximized, or scarce resources to be used wisely, optimization methods are available to guide decision making. Optimization is particularly strong if precise models of real phenomena and data of high

quality are at hand - often yielding reliable automated control and decision procedures. But what, if the models are soft and not all data are around? Can mathematics help as well? This book addresses such issues, e. g. , problems of the following type: - An elevator cannot know all transportation requests in advance. In which order should it serve the passengers? - Wing profiles of aircrafts influence the fuel consumption. Is it possible to continuously adapt the shape of a wing during the flight under rapidly changing conditions? - Robots are designed to accomplish specific tasks as efficiently as possible. But what if a robot navigates in an unknown environment? - Energy demand changes quickly and is not easily predictable over time. Some types of power plants can only react slowly.

Brutally kidnapped and separated in childhood, Tommo and Hawk are reunited at the age of fifteen in Hobart. Together they escape their troubled pasts and set off on a journey into manhood. From whale hunting in the Pacific to the Maori wars of New Zealand, from the Rocks in Sydney to the miners' riots at the goldfields, Tommo and Hawk must learn each other's strengths and weaknesses in order to survive. Especially in their last, worst confrontation between good and evil. Brilliantly evoking a time of struggle and triumph in the young colonies, Bryce Courtenay has created an unforgettable tale of the enduring bond between two brothers.

The single most comprehensive resource for environmental microbiology Environmental microbiology, the study of the roles that microbes play in all planetary environments, is one of the most important areas of scientific research. The Manual of Environmental Microbiology, Fourth Edition, provides comprehensive coverage of this critical and growing field. Thoroughly updated and revised, the Manual is the definitive reference for information on microbes in air, water, and soil and their impact on human health and welfare. Written in accessible, clear prose, the manual covers four broad areas: general methodologies, environmental public health microbiology, microbial ecology, and biodegradation and biotransformation. This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community. Specifically, this new edition of the Manual Contains completely new sections covering microbial risk assessment, quality control, and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of

Environmental Microbiology is an essential reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water and wastewater treatment, and biotechnology. Whether you are a practitioner or manager, the Professional Development Manual, 3rd edition, will provide you with guidance and advice on how to plan and evaluate successful staff development in schools. The manual presents you with practical solutions to real problems relating to the management of professional development. It sets out to provide you with knowledge and understanding of professional development, theory and practice and recommends courses of action to deliver results. The breakout star of Discovery's hit automotive restoration show Fast N' Loud takes readers on an entertaining ride through his wild life and behind the scenes of his hit show in this memoir and automotive handbook, revving with outrageous details and jaw-dropping stories, and injected with the quick-witted, foul-mouthed charm viewers love. "If we're gonna have fun, it better have a motor!" In Fast N' Loud, Richard Rawlings pushes into high gear, sharing the story of his rise to success, his show, and the automotive know-how that has made him famous. He begins with his own story—how he went from flat broke to a seat at the table with some of history's most iconic car guys. His road to the top is full of dangerous twists and hilarious turns, with a few precipitous cliffs in between, including getting shot defending his beloved 1965 Mustang fastback from carjackers, blowing out of town Fear-and-Loathing style, and picking up chicks and vagrants along the way. Rawlings then takes readers behind the scenes of Fast N' Loud, the series, sharing details on everything from the toughest car to restore to the easiest, his favorite restorations, travel and war anecdotes, and the best and worst cars to make it to the small screen. He finishes with a handy guide for classic and antique car enthusiasts that includes insider tricks of the trade. Want to know how to find a Model-T in mint condition? Need a carburetor for your '73 Ford Mustang? Want to meet other '60s Porsche owners? The answers are all here. "In preparing the present edition of this "Manual of Psychiatry", it has been the special aim of the editor to make it a working manual. While the more important current theoretical conceptions of the various schools of psychiatry have been given a place in it, the main endeavor has been to present a description of the material of the psychiatric clinic, and methods of dealing with it--that is to say, technique of diagnosis, prevention, and treatment. Among the additions are to be

mentioned chapters or sections dealing with the following subjects : disturbances of nutrition in relation to mental disorders; psychoses associated with lethargic encephalitis; psychoses associated with pellagra; residuals of cerebrospinal meningitis; theory of personality; rest and diet in the treatment of mental disorders; parole system; prevention by eugenic measures; mental disorders of childhood and mental hygiene of childhood; military psychiatry; a state mental hygiene program; group tests of intelligence; educational achievement tests; guide to study of personality; and tables of intelligence quotient values. Also a number of illustrations have been added. The rest of the book has been extensively rewritten and enlarged. A glossary of technical terms has been embodied in the index. This "Manual" is divided into five parts : Part I deals with general psychiatry, comprising etiology and symptomatology. Part II deals with special psychiatry, i.e., with the various clinical entities individually. Part III deals with the practice of psychiatry, comprising methods of investigation, treatment, prevention, and medico-legal problems. Part IV is devoted to technique of special diagnostic procedures. Part V consists of appendices giving the classification of mental disorders officially adopted by the American Psychiatric Association, a number of tables, a glossary, and an index"--Introduction. (PsycINFO Database Record (c) 2007 APA, all rights reserved).

A practical and comprehensive guide to rigid endoscopy and endosurgery in small animal practice. Fully illustrated throughout, it covers the clinical treatment of small animals from pre-operative through to post-operative care. With reference to specific procedures, this manual includes guidance on the selection of equipment, surgical techniques, anaesthesia and possible complications. A specialist chapter advising on the treatment of birds, reptiles and small mammals is also included. Clinical Manual of Small Animal Endosurgery will enable veterinarians to develop and improve their endoscopic techniques in clinical practice, as well as providing guidance on referral options for more complex cases.

KEY FEATURES

- Provides comprehensive information on how to perform rigid endoscopic investigations and procedures.
- The focus is on dogs and cats with a specialist chapter covering the treatment of exotic small animals
- Contains many full colour clinical photographs
- Written and edited by experts in the field

This atlas provides a step-by-step manual in using the video-oto-endoscope (VOE) as a tool to study ear diseases in cats and dogs. Illustrated by numerous high-resolution images and case studies, the book explains in a highly accessible manner when and

how to use VOE. It teaches how to differ between a normal and a pathological animal ear and guides the reader in diagnosing a particular disease. The book's main section provides in-depth information on causes, clinical picture, and imaging of ear diseases such as acute otitis externa, chronic otitis externa, and otitis media in small animals. Moreover, the atlas introduces technical fundamentals of the instrument and gives tips for its correct handling and cleaning. Further, readers are instructed on how to best prepare the animal patient for examination by VOE. The atlas addresses veterinary practitioners and veterinary technicians who are interested in performing otological examinations in cats and dogs. Welcome to the mysterious oceanic realm, home to exotic creatures great and small. Amidst the many wonders of the reef exist vibrant shells, full of life, in many textures and colors. Within these pages you will discover the most rare, most exquisite living shells of the world-many of which have never been photographed before. Living Shells finally unlocks these secrets of the sea by allowing you to experience these unique creatures up close, in all of their splendor, within their native habitats, deep within the ocean's soul. Living Shells marries the potent beauty of underwater photography with the science of these opulent beings of the sea. With each vivacious portrait of these exotic species, you will realize the mystery of the world's waterways and discover the bizarre yet wonderful life forms that remain hidden from our human world. What other beings have yet to be seen by the human eye? Underwater explorer Charles Rawlings continues his quest for these answers. Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June) This title is directed primarily towards health care professionals outside of the United States. Dental cases form a significant part of any general practitioner's case load. Small Animal Dentistry will help practitioners to handle these cases in an effective way, minimising the frustrations and stress that can be associated with unsatisfactory technique. It will also help to identify what is possible and practical for the general practitioner and what is best left to a referral specialist. Unique new case-based approach relating essential theory to clinical practice Modern, highly designed and illustrated so key information can be seen at a glance Self testing, MCQs and remediation means these books are ideally suited for CPD or as an exam revision aid Essential for all general small animal veterinary practitioners and students Control from MEMS to Atoms illustrates the use of control and control systems as an essential part of

functioning integrated systems. The book is organized according to the dimensional scale of the problem, starting with micro-scale systems and ending with atomic-scale systems. Similar to macro-scale machines and processes, control systems can play a major role in improving the performance of micro- and nano-scale systems and in enabling new capabilities that would otherwise not be possible. However, the majority of problems at these scales present many new challenges that go beyond the current state-of-the-art in control engineering. This is a result of the multidisciplinary nature of micro/nanotechnology, which requires the merging of control engineering with physics, biology and chemistry.

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