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Coming of age is a pivotal experience for everyone. So it is no surprise that filmmakers around the globe explore the experiences of growing up in their work. From blockbuster U.S. movies such as the Harry Potter series to thought-provoking foreign films such as Bend It Like Beckham and Whale Rider, films about youth delve into young people's attitudes, styles, sexuality, race, families, cultures, class, psychology, and ideas. These cinematic representations of youth also reflect perceptions about youth in their respective cultures, as well as young people's worth to the larger society. Indeed, as the contributors to this volume make plain, films about young people open a very revealing window on the attitudes and values of cultures across the globe. Youth Culture in Global Cinema offers the first comprehensive investigation of how young people are portrayed in film around the world. Eighteen established film scholars from eleven different national backgrounds discuss a wide range of films that illuminate the varied conditions in which youth live. The essays are grouped thematically around the issues of youthful resistance and rebellion; cultural and national identity, including religion and politics; and sexual maturation, including gender distinctions and coming-of-age queer. Some essays engage in close readings of films, while others examine the advertising and reception of films or investigate psychological issues. The volume concludes with filmographies of over 700 youth-related titles arranged by nation and theme.

New edition of the bestselling guide to deep reinforcement learning and how it's used to solve complex real-world problems. Revised and expanded to include multi-agent methods, discrete optimization, RL in robotics, advanced exploration techniques, and more Key Features Second edition of the bestselling introduction to deep reinforcement learning, expanded with six new chapters Learn advanced exploration techniques including noisy networks, pseudo-count, and network distillation methods Apply RL methods to cheap hardware robotics platforms Book Description Deep Reinforcement Learning Hands-On, Second Edition is an updated and expanded version of the bestselling guide to the very latest reinforcement learning (RL) tools and techniques. It provides you with an introduction to the fundamentals of RL, along with the hands-on ability to code intelligent learning agents to perform a range of practical tasks. With six new chapters devoted to a variety of up-to-the-minute developments in RL, including discrete optimization (solving the Rubik's Cube), multi-agent methods, Microsoft's TextWorld environment, advanced exploration techniques, and more, you will come away from this book with a deep understanding of the latest innovations in this emerging field. In addition, you will gain actionable insights into such topic areas as deep Q-networks, policy gradient methods, continuous control problems, and highly scalable, non-gradient methods. You will also discover how to build a real hardware robot trained with RL for less than \$100 and solve the Pong environment in just 30 minutes of training using step-by-step code optimization. In short, Deep Reinforcement Learning Hands-On, Second Edition, is your companion to navigating the exciting complexities of RL as it helps you attain experience and knowledge through real-world examples. What you will learn Understand the deep learning context of RL and implement complex deep learning models Evaluate RL methods including cross-entropy, DQN, actor-critic, TRPO, PPO, DDPG, D4PG, and others Build a practical hardware robot trained with RL methods for less than \$100 Discover Microsoft's TextWorld environment, which is an interactive fiction games platform Use discrete optimization in RL to solve a Rubik's Cube Teach your agent to play Connect 4 using AlphaGo Zero Explore the very latest deep RL research on topics including AI chatbots Discover advanced exploration techniques, including noisy networks and network distillation techniques Who this book is for Some fluency in Python is assumed. Sound understanding of the fundamentals of deep learning will be helpful. This book is an introduction to deep RL and requires no background in RL

A new edition of a book is warranted when the book is successful and there are many new developments in the related discipline. Both have occurred for this book during the past 7 years since its second edition. The growth and development in nuclear pharmacy and radiopharmaceutical chemistry along with the continued success of the book have convinced us to update the book; hence this third edition. This book is a ramification of my nuclear pharmacy courses offered to pharmacy students specializing in nuclear pharmacy, nuclear medicine residents, and nuclear medicine technology students. The book is written in an integrated form from the basic concept of atomic structure to the practical clinical uses of radiopharmaceuticals. It serves both as a textbook on nuclear pharmacy for pharmacy students and nuclear medicine technologists, and as a useful reference book for many professionals related to nuclear medicine, such as nuclear medicine physicians and radiologists. The book contains 12 chapters. Each chapter is written as comprehensively as possible based on my personal experience and understanding. At the end of each chapter, a section of pertinent questions and problems and some suggested reading materials are included. I have made justifiably many additions and deletions as well as some reorganization in this edition. Chapter 3 is entirely dedicated to instruments for radiation detection and measurement, including brief description of gas detectors, gamma-detecting instruments, and tomographic scanners.

Geotechnical Engineering: A Practical Problem Solving Approach covers all of the major geotechnical topics in the simplest possible way adopting a hands-on approach with a very strong practical bias. You will learn the material through worked examples that are representative of realistic field situations whereby geotechnical engineering principles are applied to solve real-life problems.

This volume presents data gathered in Phase II of a study to assess needs of foreign students from developing nations at U.S. colleges and universities. The final report of Phase II, Sociology Report No. 147A, presents the summary of the data analysis and reports on the overall Phase II tasks.

A monograph that presents studies on recruitment and retention of direct support professionals, including strategies to reduce turnover of newly-hired staff.

Essays examine the progress of desegregation in the U.S., including such issues as busing, bilingual education, and the influence of the Supreme Court

This new edition of Counseling Supervision is intended for counselor educators, counselor supervisor practitioners, and supervisors-in-training in a variety of educational and mental health settings. The editors have brought together experts in the field of counselor education to review and examine primary supervision theories and their application to the issues that counselor supervisors will encounter. Special topic areas included are multicultural issues in counselor supervision; the supervisory relationship, an essential and sometimes forgotten component of supervision, and its influence on supervision process and outcome; supervision of career counselor trainees; supervision of school counselors; supervision of family and group counselors; group supervision; understanding and conducting research in counselor

supervision and training; ethical and advocacy issues in supervision, and supervisor training. The authors include numerous case examples throughout the text in order to illustrate the application of theory to practical issues that the counselor supervisors encounter. All chapters in this edition have been revised and updated, and new chapters have been added that expand on areas of supervision that are highly relevant to students, researchers, and practitioners. Koans are enigmatic spiritual formulas used for religious training in the Zen Buddhist tradition. Arguing that our understanding of the koan tradition has been severely limited, contributors to this collection examine previously unrecognized factors in the formation of this tradition, and highlight the rich complexity and diversity of koan practice and literature.

This Standard provides a uniform basis for the design, detailing, fabrication, testing, assembly, and erection of steel tubular structures for electrical transmission poles. These guidelines apply to cold-formed single- and multipole tubular steel structures that support overhead transmission lines. The design parameters are applicable to guyed and self-supporting structures using a variety of foundations, including concrete caissons, steel piling, and direct embedment. Standard ASCE/SEI 48-11 replaces the previous edition (ASCE/SEI 48-05) and revises some formulas that are based on other current industry standards. This Standard includes a detailed commentary and appendixes with explanatory and supplementary information. This Standard will be a primary reference for structural engineers and construction managers involved in designing and building electrical transmission lines, as well as engineers and others involved in the electric power transmission industry.

"... this manual does an excellent job of merging traditional and contemporary principles of neurotherapeutic intervention, all with a practical, functional orientation." -- Physical Therapy Care Reports, Vol. 2, No. 1, January 1999 Here's an integrated physical therapy model applicable to a variety of clinical problems and diagnoses. After exploring the application of treatment techniques, the authors focus on clinical decision-making strategies using clinical problems and progressively comprehensive case studies.

"This text offers a wonderful source of ideas for developing laboratory experiences that will be directly applicable to clinical situations that our students will face in their future practice." -- Mark W. Pape, MSPT, Angelo State University, San Angelo, Texas

Rather than existing in a planktonic or free-living form, evidence indicates that microbes show a preference for living in a sessile form within complex communities called biofilms. Biofilms appear to afford microbes a survival advantage by optimizing nutrition, offering protection against hostile elements, and providing a network for cell-to-cell signaling and genetic exchange. *Biofilms, Infection, and Antimicrobial Therapy* provides an in-depth exploration of biofilms, offering broad background information, as well as a detailed look at the serious concerns to which biofilm-associated infections give rise. Prosthetic device infections, such as those involving artificial heart valves, intravascular catheters, or prosthetic joints, are prime examples of biofilm-associated infections. With the increasing use of such devices in the modern practice of medicine, the prevalence of these infections is expected to increase. Unfortunately, one of the most troubling characteristics of microbes found in biofilms is a profound resistance to antimicrobial agents. As biofilm-associated infections are particularly difficult to treat, they result in significant mortality, morbidity, and increased economic burden. Clearly, a better understanding of the pathogenesis of these infections and improved means for prevention and treatment are urgently needed! In *Biofilms, Infection, and Antimicrobial Therapy*, Drs Pace, Rupp, and Finch assemble the contributions of more than 50 of the world's leading authorities on microbial biofilms who present recent findings on antibacterial tolerance and bacterial persistence associated with biofilms and discusses the implications of those findings with regard to human health. They explore the molecular mechanisms of bacterial adherence, biofilm formation, regulation of biofilm maintenance, and cell-to-cell communication and present the latest information on various treatment protocols that should aid physicians in the treatment of these refractory and often difficult-to-treat infections.

This book provides practical strategies for managers and supervisors of human services agencies to use in assessing and successfully addressing workforce challenges. Each strategy is described with detailed instructions about how to assess the strategy, develop an intervention plan, and evaluate its effectiveness. Chapters also discuss how and why each strategy should be used. The book includes worksheets, forms, flow charts, and examples of how successful agencies have used these strategies. This unique volume provides a mechanistic look at key aspects of the inflammatory response seen in critical illness. Key cells and mediators involved in the innate inflammatory response and the pathways employed to combat infection or respond to injury are emphasized. It has become clear that a delicate balance exists to allow eradication of infection with minimal immune-mediated tissue injury in the process. For this reason an up-to-date discussion of how the inflammatory response down regulates itself has been included. The inflammatory response in the critically ill is vastly different than in healthy hosts. For this reason, discussions about the mechanisms of pharmacologic immune suppression and other less commonly considered immunomodulated states seen frequently in critical care medicine have been included. Given the differences in immune function seen in critical illness, the importance of considering the immune system an organ whose function must be monitored and optimized for the best possible outcome has been highlighted. In addition, we have included up-to-date discussions of prevention and diagnostic approaches to extremely common infectious entities which must be monitored for and treated appropriately in the setting of critical illness induced immune dysfunction.

This report is a demographic study of the United States education system from kindergarten through post-graduate education. Part 1 provides a briefing on the major demographic trends that form the framework of the analysis in terms of: (1) number of births in different groups; (2) rate of age increase in various groups due to varying birth rates; (3) changes in family status; (4) differences in educational needs by region; and (5) education, including educational supply and job demand, and the growing need for day care and early childhood programs such as Head Start. Part 2 concerns the retention of students through the school system to high school graduation. Part 3 concerns the accessibility of college to different socioeconomic groups. Part 4 discusses retention of students through college graduation in the context of the number of years it takes students to reach that goal. Throughout, suggestions are offered on how to deal with the impact of increased minorities in the educational system and how best to structure curricula to better educate the population as a whole. (CG)

This book provides an overview of the current advances in artificial intelligence and neural nets. Artificial intelligence (AI) methods have shown great capabilities in modelling, prediction and recognition tasks supporting human-machine interaction. At the same time, the issue of emotion has gained increasing attention due to its relevance in achieving

human-like interaction with machines. The real challenge is taking advantage of the emotional characterization of humans' interactions to make computers interfacing with them emotionally and socially credible. The book assesses how and to what extent current sophisticated computational intelligence tools might support the multidisciplinary research on the characterization of appropriate system reactions to human emotions and expressions in interactive scenarios. Discussing the latest recent research trends, innovative approaches and future challenges in AI from interdisciplinary perspectives, it is a valuable resource for researchers and practitioners in academia and industry.

Thin-walled metal shell structures are highly efficient in their use of material, but they are particularly sensitive to failure by buckling. Many different forms of buckling can occur for different geometries and different loading conditions. Because this field of knowledge is both complex and industrially important, it is of great interest and concern in a wide range of industries. This book presents a compilation and synthesis of a wealth of research, experience and knowledge of the subject. Information that was previously widely scattered throughout the literature is assembled in a concise and convenient form that is easy to understand, and state-of-the-art research findings are thoroughly examined. This book is useful for those involved in the structural design of silos, tanks, pipelines, biodigestors, chimneys, towers, offshore platforms, aircraft and spacecraft. Buckling of Thin Metal Shells is essential reading for designers, researchers and code writers involved with thin-walled metal shell structures.

Critically ill and critically injured patients require specialized nutrition support to avoid the complications of progressive malnutrition. There is a paucity of information providing practical solutions to these difficult clinical problems. From Nutrition Support to Pharmacologic Nutrition in the ICU focuses on the theoretical and practical aspects of the management of this high-risk patient population. Each chapter presents a state-of-the-art discussion of nutritional and metabolic issues relevant to this resource-intensive patient population and contains current references, liberal tables and figures, and the personal insights of recognized international leaders in this field.

Field Manual FM 7-0 Train to Win in a Complex World October 2016 FM 7-0, Train to Win in a Complex World, expands on the fundamental concepts of the Army's training doctrine introduced in ADRP 7-0. The Army's operations process is the foundation for how leaders conduct unit training. It also places the commander firmly at the center of the process and as the lead of every facet of unit training. FM 7-0 supports the idea that training a unit does not fundamentally differ from preparing a unit for an operation. Reinforcing the concepts, ideas, and terminology of the operations process while training as a unit makes a more seamless transition from training to operations. This publication focuses on training leaders, Soldiers, and Army Civilians as effectively and efficiently as possible given limitations in time and resources. Polymers, plastics, and composite materials are widely used in the shipping industry and so get exposed to marine waters. Biofouling of these leads to problems for ships and boats in the form of reduced speed and corrosion, which these industries would like to prevent. Several hundred thousand tons of plastics that are discarded reach the marine environment every year either from land run-off or because of maritime activities. It has been estimated that because plastics do not degrade easily, one million marine animals are killed every year either by choking on floating plastic items or by becoming entangled in plastic debris. For the shipping industry the polymer should not foul and should be stable for extended periods of time in the marine environment. For the environmentalist the waste dumped after its use should degrade fast without causing problems to flora and fauna as well to the coastal economies. Addressing one of these issues leads to enhancement of the other issue and so this is not an easy problem to solve. This book covers the interaction of polymers with the marine environment, the problems they cause to ecology, their biofouling and biodegradation, and possible solutions.

David Bordwell's new book is at once a history of film criticism, an analysis of how critics interpret film, and a proposal for an alternative program for film studies. It is an anatomy of film criticism meant to reset the agenda for film scholarship. As such Making Meaning should be a landmark book, a focus for debate from which future film study will evolve. Bordwell systematically maps different strategies for interpreting films and making meaning, illustrating his points with a vast array of examples from Western film criticism. Following an introductory chapter that sets out the terms and scope of the argument, Bordwell goes on to show how critical institutions constrain and contain the very practices they promote, and how the interpretation of texts has become a central preoccupation of the humanities. He gives lucid accounts of the development of film criticism in France, Britain, and the United States since World War II; analyzes this development through two important types of criticism, thematic-explicatory and symptomatic; and shows that both types, usually seen as antithetical, in fact have much in common. These diverse and even warring schools of criticism share conventional, rhetorical, and problem-solving techniques--a point that has broad-ranging implications for the way critics practice their art. The book concludes with a survey of the alternatives to criticism based on interpretation and, finally, with the proposal that a historical poetics of cinema offers the most fruitful framework for film analysis.

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