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A BRIEF HISTORY OF THE FUTURE OF EDUCATION

LEARNING IN THE AGE OF DISRUPTIVE INNOVATION (TEACHING THE DIGITAL GENERATIONS AND UTILIZING TECHNOLOGY IN THE CLASSROOM)

Solution Tree The digital age creates new demands for learners, requiring additional, next-generation skills necessary to thrive in the modern world. A Brief History of the Future of Education provides an overview of contemporary education and identifies a number of practical strategies educators can use to ensure learning stays relevant for future generations. Learn how to effectively prepare modern learners for a world that requires different and unique skill sets from previous generations. Implement a sustainable strategy for teaching the digital generation in the face of disruptive innovation: Understand how information overload and digital learning have radically changed the way students learn and what knowledge they require. Consider predictions about what learning will look like in the future and explore strategies that educators and school leaders can utilize to prepare schools and next-generation learners. Discover ten critical roles teachers should embrace if they want to remain relevant in the digital age and avoid the TTWWADI (That's the Way We've Always Done It) mentality. Learn how to leverage the nine core learning attributes that characterize today's digital learners. Learn how to approach today's modern learners as your customers and clients and effectively incorporate new digital technologies in the classroom and into daily practice. Contents: Introduction Chapter 1: Beyond That's the Way We've Always Done It Chapter 2: What the Future Holds for Our Students Chapter 3: Living in the Age of Disruptive Innovation Chapter 4: The Nine Core Learning Attributes of Digital Generations Chapter 5: Looking Back, Moving Forward Chapter 6: Learning in the Year 2038 Chapter 7: New Skills for Modern Times Chapter 8: New Roles for Educators Chapter 9: Where We Begin

CULTURE, SOCIETY & GLOBALIZATION: GLOBALIZATION IN MODERN TIMES GR. 5-8

Classroom Complete Press **This is the chapter slice "Globalization in Modern Times Gr. 5-8" from the full lesson plan "Culture, Society & Globalization"*** Help students make informed decisions about civil matters and lifestyle choices that affect themselves and the world. Our resource provides students with the building blocks to understand the debates and issues surrounding globalization. Go back in time to experience the influence of the Ottoman Empire on the greater world. Debate the pros and cons of globalization in today's world. Conduct a survey at your school to find out whether mother languages are being passed down to current generations. Explore the negative impacts of the spread of Western culture to the rest of the world. Plan international vacations for people that minimize the negative impacts of tourist activity on indigenous and local populations. Find out how globalization can cause the spread of infectious diseases to occur more quickly. Watch the world come together to deal with the global issue of Climate Change. Represent a nation during a United Nations meeting to draft additions to human rights law. Aligned to your State Standards and written to Bloom's Taxonomy, additional hands-on activities, crossword, word search, comprehension quiz and answer key are also included.

SALES ENGAGEMENT

HOW THE WORLD'S FASTEST GROWING COMPANIES ARE MODERNIZING SALES THROUGH HUMANIZATION AT SCALE

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GOVERNMENT IN AMERICA

PEOPLE, POLITICS, AND POLICY

Longman Publishing Group With an emphasis on public policy, and through the use of its resonant "politics matters" theme, Government in America, Brief Ninth Edition, illustrates the impact that government has on the daily lives of each and every American, motivates students to become active participants in all aspects of our political system, and overcomes apathy toward American government. The Brief Ninth Edition contains all the information included in the comprehensive version, in a more compact form for ease of use.

MERLEAU-PONTY AND MODERN POLITICS AFTER ANTI-HUMANISM

Rowman & Littlefield "In this book, Diana Coole shows how existential phenomenology illuminates and enlivens our understanding of politics. With breadth of vision and penetrating insight, Coole demonstrates that political questions were always central to Merleau-Ponty's philosophical project. She also shows how Merleau-Ponty's concern with contingency anticipated arguments by thinkers such as Derrida, Foucault, and Deleuze, while sustaining a robust sense of politics as the domain of collective life"--Jacket.

GOVERNMENT IN AMERICA

PEOPLE, POLITICS, AND POLICY

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NORDIC HOMICIDE IN DEEP TIME

LETHAL VIOLENCE IN THE EARLY MODERN ERA AND PRESENT TIMES

Helsinki University Press *Nordic Homicide in Deep Time* draws a unique and detailed picture of developments in human interpersonal violence and presents new findings on rates, patterns, and long-term changes in lethal violence in the Nordics. Conducted by an interdisciplinary team of criminologists and historians, the book analyses homicide and lethal violence in northern Europe in two eras – the 17th century and early 21st century. Similar and continuous societal structures, cultural patterns, and legal cultures allow for long-term and comparative homicide research in the Nordic context. Reflecting human universals and stable motives, such as revenge, jealousy, honour, and material conflicts, homicide as a form of human behaviour enables long-duration comparison. By describing the rates and patterns of homicide during these two eras, the authors unveil continuity and change in human violence. Where and when did homicide typically take place? Who were the victims and the offenders, what were the circumstances of their conflicts? Was intimate partner homicide more prevalent in the early modern period than in present times? How long a time elapsed from violence to death? Were homicides often committed in the context of other crime? The book offers answers to these questions among others, comparing regions and eras. We gain a unique and empirically grounded view on how state consolidation and changing routines of everyday life transformed the patterns of criminal homicide in Nordic society. The path to pacification was anything but easy, punctuated by shorter crises of social turmoil, and high violence. The book is also a methodological experiment that seeks to assess the feasibility of long-duration standardized homicide analysis and to better understand the logic of homicide variation across space and over time. In developing a new approach for extending homicide research into the deep past, the authors have created the Historical Homicide Monitor. The new instrument combines wide explanatory scope, measurement standardization, and articulated theory expression. By retroactively expanding research data to the pre-statistical era, the method enables long-duration comparison of different periods and areas. Based on in-depth source critique, the approach captures patterns of criminal behaviour, beyond the control activity of the courts. The authors foresee the application of their approach in even remoter periods. *Nordic Homicide in Deep Time* helps the reader to understand modern homicide by revealing the historical continuities and changes in lethal violence. The book is written for professionals, university students and anyone interested in the history of human behaviour.

THE MAKING OF ERETZ ISRAEL IN THE MODERN ERA

A HISTORICAL-GEOGRAPHICAL STUDY (1799-1949)

Walter de Gruyter GmbH & Co KG Napoleon's invasion of the Middle East marks the beginning of the modern era in the region. This book traces the developments that led to the making of a new and separate geographical-political entity in the Middle East known as Eretz Israel and the establishment of the State of Israel within its bounds. Thus, its time frame runs from Napoleon's invasion of Eretz Israel / Palestine in 1799 to the establishment of Israel in 1948-1949. Eretz Israel as the formal name of a separate entity in the modern era first appeared in the early translations into Hebrew of the Balfour Declaration, while in the original document the country was referred to as "Palestine." During the period of Ottoman rule the territory that would in time be called Eretz Israel / Palestine was not a separate political unit. Among Jews, use of "Eretz Israel" increased only after the beginning of Zionist aliyot. Had the Zionist movement not arisen, it is doubtful whether the development to which this study is devoted would have occurred. The motivating force behind that process is without doubt the Zionist element. That is why Jews are the major protagonists in this book.

NEXT GENERATION COMPLIANCE

ENVIRONMENTAL REGULATION FOR THE MODERN ERA

Oxford University Press Nearly everyone accepts as gospel two assumptions: compliance with environmental rules is high, and enforcement is responsible for making compliance happen. Both are wrong. In fact, serious violations of environmental regulations are widespread, and by far the most important driver of compliance results is not enforcement but the structure of the rule itself. In *Next Generation Compliance*, Cynthia Giles shows that well-designed regulations deploying creative strategies to make compliance the default can achieve excellent implementation outcomes. Poorly designed rules that create many opportunities to evade, obfuscate, or ignore will have dismal performance that no amount of enforcement will ever fix. Rampant violations have real consequences: unhealthy air, polluted water, contaminated drinking water, exposure to dangerous chemicals, and unrestrained climate-forcing pollution. They also land hardest on already overburdened communities - that's why Next Gen and environmental justice are tightly linked. The good news is there are tools to build much better compliance into regulations, including many tested strategies that can be the building blocks of programs that withstand the inevitable pressures of real life. *Next Generation Compliance* shows how regulators can avoid the compliance calamities that plague far too many environmental rules today, a

lesson that is particularly urgent for regulations tackling climate change. It has an optimistic message: there are ways to ensure reliable results, if regulators jettison incorrect assumptions and design rules that are resilient to the mess and complexity of the real world.

GENERAL KNOWLEDGE QUICK STUDY GUIDE & WORKBOOK

TRIVIA QUESTIONS BANK, WORKSHEETS TO REVIEW HOMESCHOOL NOTES WITH ANSWER KEY

Bushra Arshad General Knowledge Quick Study Guide & Workbook: Trivia Questions Bank, Worksheets to Review Homeschool Notes with Answer Key PDF (General Knowledge Notes, Terminology & Concepts about Self-Teaching/Learning) covers subjective tests for entry tests prep with 1300 trivia questions. General Knowledge quick study guide PDF book covers basic concepts, theory and competitive assessment tests. General Knowledge question bank PDF book helps to practice workbook questions from exam prep notes. General knowledge quick study guide with answers includes self-learning guide with 1300 Olympiad, FTCE and entry tests past papers quiz questions. 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RENEWABLE ENERGY TECHNOLOGIES

ADVANCES AND EMERGING TRENDS FOR SUSTAINABILITY

John Wiley & Sons RENEWABLE ENERGY TECHNOLOGIES With the goal of accelerating the growth of green energy utilization for the sustainability of life on earth, this volume, written and edited by a global team of experts, goes into the practical applications that can be utilized across multiple disciplines and industries, for both the engineer and the student. Green energy resources are gaining more attention in academia and industry as one of the preferred choices for sustainable energy conversion. Due to the energy demand, environmental impacts, economic needs, and social issues, green energy resources are being researched, developed, and funded more than ever before. Researchers are facing numerous challenges, but there are new opportunities waiting for green energy resource utilization within the context of environmental and economic sustainability. Efficient energy conversion from solar, wind, biomass, fuel cells, and others are paramount to this overall mission and the success of these efforts. Written and edited by a global team of experts, this groundbreaking new volume from Scrivener Publishing presents recent advances in the study of green energy across a variety of fields and sources. Various applications of green energy resources, modeling and performance analysis, and grid integration aspects of green energy resources are considered. Not only laying out the concepts in an easy-to-understand way, but this team offers the engineer, scientist, student, or other professional practical solutions to everyday problems in their daily applications. Valuable as a learning tool for beginners in this area as well as a daily reference for engineers and scientists working in these areas, this is a must-have for any library.

TWENTIETH CENTURY

DIAGNOSE OUR MODERN HEALTHCARE SYSTEM!

AuthorHouse Metaphorically, the processing of one's life experiences, whether negative or positive, can be compared to that of processing raw meat. For our natural diet, meat is always presented to us in a raw state but it is virtually always cooked done before eating. This is a repeated process. Eating the resulting process enables the natural body and mind to grow into a stronger state. Likewise, the resulting process of handling raw and ongoing life experiences result in a stronger spiritual state of mind by the Grace of God. Having a good relationship with Jesus Christ guarantees becoming better equipped in processing each subsequent experience. We eventually become a strong and grown spiritual being. This is a process that obviously does not come over night.

HIDING IN PLAIN SIGHT

THE PURSUIT OF WAR CRIMINALS FROM NUREMBERG TO THE WAR ON TERROR

Univ of California Press "Hiding in Plain Sight tells the story of the global effort to apprehend the world's most wanted fugitives. Beginning with the flight of an estimated thirty thousand Nazi war criminals after the Second World War, then moving on to the question of justice following the recent Balkan wars and the Rwandan genocide, and ending with the establishment of the International Criminal Court and America's pursuit of suspected terrorists in the aftermath of 9/11, the book explores the range of diplomatic and military strategies--both successful and unsuccessful--that states and international courts have adopted to pursue and capture war crimes suspects. It is a story fraught with broken promises, backroom politics, ethical dilemmas, and daring escapades--all in the name of international justice and human rights. In this exhaustively researched and compelling written work of political and judicial history, the authors argue that while the legal and operational regimes needed to apprehend and deliver suspected war criminals to justice are largely in place, the political will on the part of states to make arrests happen in a consistent and apolitical manner remains elusive. And until this situation is rectified, murderers will get away with murder, and torturers will retire with pensions"--Provided by publisher.

ANCIENT TEACHINGS FOR MODERN TIMES

THE WAY TO A RICH AND DEEPLY SATISFYING LIFE

John Hunt Publishing Is your life fulfilling? Do you feel loved and valued? Are you full of energy, happy and healthy? Are your days inspiring and fun? This remarkable book shows you how to stop the struggle and embrace life. Peta Morton shares the timeless spiritual wisdom of the ages in a modern, non-religious context and invites you on a journey of self-discovery. 'Peta Morton elegantly weaves together practical wisdom from a diverse array of traditions to provide a 'one stop shop' for anyone interested in personal development and well-being. This synthesis of important teachings and modalities, ranging from the power of breathing, thoughts, gratitude, and beyond, has the potential to shift the reader's perspective and clears the path for a happier, more peaceful life.' Mark Gober, author of An End to Upside Down Thinking

APPLIED ENGINEERING ANALYSIS

John Wiley & Sons A resource book applying mathematics to solve engineering problems Applied Engineering Analysis is a concise textbook which demonstrates how to apply mathematics to solve

engineering problems. It begins with an overview of engineering analysis and an introduction to mathematical modeling, followed by vector calculus, matrices and linear algebra, and applications of first and second order differential equations. Fourier series and Laplace transform are also covered, along with partial differential equations, numerical solutions to nonlinear and differential equations and an introduction to finite element analysis. The book also covers statistics with applications to design and statistical process controls. Drawing on the author's extensive industry and teaching experience, spanning 40 years, the book takes a pedagogical approach and includes examples, case studies and end of chapter problems. It is also accompanied by a website hosting a solutions manual and PowerPoint slides for instructors. Key features: Strong emphasis on deriving equations, not just solving given equations, for the solution of engineering problems. Examples and problems of a practical nature with illustrations to enhance student's self-learning. Numerical methods and techniques, including finite element analysis. Includes coverage of statistical methods for probabilistic design analysis of structures and statistical process control (SPC). Applied Engineering Analysis is a resource book for engineering students and professionals to learn how to apply the mathematics experience and skills that they have already acquired to their engineering profession for innovation, problem solving, and decision making.

ELECTRONIC CIRCUITS ANALYSIS QUICK STUDY GUIDE & WORKBOOK

TRIVIA QUESTIONS BANK, WORKSHEETS TO REVIEW HOMESCHOOL NOTES WITH ANSWER KEY

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TALKING ABOUT EVIL

PSYCHOANALYTIC, SOCIAL, AND CULTURAL PERSPECTIVES

Taylor & Francis How can we talk about evil? How can we make sense of its presence all around us? How can we come to terms with the sad fact that our involvement in doing or enabling evil is an interminable aspect of our lives in the world? This book is an attempt to engage these questions in a new way. Written from within the complicated reality of Israel, the contributors to this book forge a collective effort to think about evil from multiple perspectives. A necessary effort, since psychoanalysis has been slow to account for the existence of evil, while philosophy and the social sciences have tended to neglect its psychological aspects. The essays collected here join to form a wide canvas on which a portrait of evil gradually emerges, from the Bible, through the enlightenment to the Holocaust; from Kant, through Freud, Klein, Bromberg and Stein to Arendt, Agamben and Bauman; using literature, history, cinema, social theory and psychoanalysis. Talking about Evil opens up a much needed space for thinking, in itself an antidote to evil. It will be of interest to psychoanalysts, psychotherapists, and scholars and students of philosophy, social theory and the humanities.

SECURE CLOUD COMPUTING

EDEXCEL GCSE MODERN WORLD HISTORY REVISION GUIDE

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CRACKING THE SAT SUBJECT TEST IN WORLD HISTORY

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INTRODUCTION TO INFORMATION SECURITY

A STRATEGIC-BASED APPROACH

Newnes Most introductory texts provide a technology-based survey of methods and techniques that leaves the reader without a clear understanding of the interrelationships between methods and techniques. By providing a strategy-based introduction, the reader is given a clear understanding of how to provide overlapping defenses for critical information. This understanding provides a basis for engineering and risk-management decisions in the defense of information. Information security is a rapidly growing field, with a projected need for thousands of professionals within the next decade in the government sector alone. It is also a field that has changed in the last decade from a largely theory-based discipline to an experience-based discipline. This shift in the field has left several of the classic texts with a strongly dated feel. Provides a broad introduction to the methods and techniques in the field of information security Offers a strategy-based view of these tools and techniques, facilitating selection of overlapping methods for in-depth defense of information Provides very current view of the emerging standards of practice in information security

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AN AMERICAN HISTORY - SEAGULL

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Practice Vector and Equilibrium MCQ book PDF with answers, test 13 to solve MCQ questions bank: Vectors, vector concepts, vector magnitude, cross product of two vectors, vector addition by rectangular components, product of two vectors, equilibrium of forces, equilibrium of torque, product of two vectors, solving physics problem, and torque.

A HISTORY OF TRANSPLANTATION IMMUNOLOGY

Academic Press Those entering the field of transplantation are frequently unaware of the topics historical roots and even of the background on which modern discoveries in tolerance, histocompatibility antigens, and xenotransplantation are based. A History of Transplantation Immunology is an account, written by one of the founding fathers of the field, of how tissue and organ transplantation has become one of the most successful branches of late 20th century medicine. The book helps place the work of contemporary scientists into its proper context and makes fascinating reading for immunologists in all stages of their career. Describes landmarks in immunology and places them in historical context Beautifully written by one of the founding fathers of the field Portrays the surprising history of events in a colorful and readable manner Contains biographical sketches of some of the pioneers Illustrates the development of key ideas in immunology--tolerance, graft rejection, and transplantation Foreword by Ray Owen

SENSIBLE THINKING FOR TURBULENT TIMES

iUniverse In these times of rapid change and constant upheaval, can we learn to think and communicate more effectively-at home, in school, on the job, and as citizens in the larger world? This book, which is based on the formulations of "general semantics," says yes, yes, and yes! Topics in it include practical ways to improve your thinking ability, emotional self-management, creativity, and analysis of important social issues. "Buyer beware: Reading this book could result in serious improvements in your approach to self, to others, and to the ways you interact with the world." -Andrea Johnson, President, Institute of General Semantics "This book provides a highly practical guide for problem-solving, decision-making, interpersonal relations, and personal fulfillment." -Steve Stockdale, Executive Director, Institute of General Semantics "Sensible Thinking for Turbulent Times brings the great ideas of general semantics into the 21st century in a clear and accessible manner." -Lance Strate, President, Media Ecology Association "Martin Levinson has done an excellent job of applying sensible thinking to current problems. Our culture needs this book." -Gregg Hoffmann, author of Searching for Unmediated Truth "This book offers a sound approach to the problems of everyday living. Highly recommended." -Judith Feld, M.D., President, Western Chapter New York Psychiatric Society

DATA SCIENCE HANDBOOK

A PRACTICAL APPROACH

John Wiley & Sons DATA SCIENCE HANDBOOK This desk reference handbook gives a hands-on experience on various algorithms and popular techniques used in real-time in data science to all researchers working in various domains. Data Science is one of the leading research-driven areas in the modern era. It is having a critical role in healthcare, engineering, education, mechatronics, and medical robotics. Building models and working with data is not value-neutral. We choose the problems with which we work, make assumptions in these models, and decide on metrics and algorithms for the problems. The data scientist identifies the problem which can be solved with data and expert tools of modeling and coding. The book starts with introductory concepts in data science like data munging, data preparation, and transforming data. Chapter 2 discusses data visualization, drawing various plots and histograms. Chapter 3 covers mathematics and statistics for data science. Chapter 4 mainly focuses on machine learning algorithms in data science. Chapter 5 comprises of outlier analysis and DBSCAN algorithm. Chapter 6 focuses on clustering. Chapter 7 discusses network analysis. Chapter 8 mainly focuses on regression and naive-bayes classifier. Chapter 9 covers web-based data visualizations with Plotly. Chapter 10 discusses web scraping. The book concludes with a section discussing 19 projects on various subjects in data science. Audience The handbook will be used by graduate students up to research scholars in computer science and electrical engineering as well as industry professionals in a range of industries such as healthcare.

TEACHERS GUIDE

INDIANS OF NORTH AMERICA

Includes reproducible assignment sheets.

FUNDAMENTALS OF APPLIED DYNAMICS

MIT Press An introductory engineering textbook by an award-winning MIT professor that covers the history of dynamics and the dynamical analyses of mechanical, electrical, and electromechanical systems. This introductory textbook offers a distinctive blend of the modern and the historical, seeking to encourage an appreciation for the history of dynamics while also presenting a framework for future learning. The text presents engineering mechanics as a unified field, emphasizing dynamics but integrating topics from other disciplines, including design and the humanities. The book begins with a

history of mechanics, suitable for an undergraduate overview. Subsequent chapters cover such topics as three-dimensional kinematics; the direct approach, also known as vectorial mechanics or the momentum approach; the indirect approach, also called lagrangian dynamics or variational dynamics; an expansion of the momentum and lagrangian formulations to extended bodies; lumped-parameter electrical and electromagnetic devices; and equations of motion for one-dimensional continuum models. The book is noteworthy in covering both lagrangian dynamics and vibration analysis. The principles covered are relatively few and easy to articulate; the examples are rich and broad. Summary tables, often in the form of flowcharts, appear throughout. End-of-chapter problems begin at an elementary level and become increasingly difficult. Appendixes provide theoretical and mathematical support for the main text.

“TRUTH BEHIND BARS”

REFLECTIONS ON THE FATE OF THE RUSSIAN REVOLUTION

Athabasca University Press Just north of the Arctic Circle is the settlement of Vorkuta, a notorious camp in the Gulag internment system that witnessed three pivotal moments in Russian history. In the 1930s, a desperate hunger strike by socialist prisoners, victims of Joseph Stalin’s repressive regime, resulted in mass executions. In 1953, a strike by forced labourers sounded the death knell for the Stalinist forced labour system. And finally, in the late 1980s and early 1990s, a series of strikes by new, independent miners’ unions were central to overturning the Stalinist system. Paul Kellogg uses the story of Vorkuta as a frame with which to re-assess the Russian Revolution. In particular, he turns to the contributions of Lulii Martov, a contemporary of Lenin, and his analysis of the central role played in the revolution by a temporary class of peasants-in-uniform. Kellogg explores the persistence and creativity of workers’ resistance in even the darkest hours of authoritarian repression and offers new perspectives on the failure of democratic governance after the Russian Revolution.

HOW PEOPLE LEARN II

LEARNERS, CONTEXTS, AND CULTURES

National Academies Press There are many reasons to be curious about the way people learn, and the past several decades have seen an explosion of research that has important implications for individual learning, schooling, workforce training, and policy. In 2000, *How People Learn: Brain, Mind, Experience, and School: Expanded Edition* was published and its influence has been wide and deep. The report summarized insights on the nature of learning in school-aged children; described principles for the design of effective learning environments; and provided examples of how that could be implemented in the classroom. Since then, researchers have continued to investigate the nature of learning and have generated new findings related to the neurological processes involved in learning, individual and cultural variability related to learning, and educational technologies. In addition to expanding scientific understanding of the mechanisms of learning and how the brain adapts throughout the lifespan, there have been important discoveries about influences on learning, particularly sociocultural factors and the structure of learning environments. *How People Learn II: Learners, Contexts, and Cultures* provides a much-needed update incorporating insights gained from this research over the past decade. The book expands on the foundation laid out in the 2000 report and takes an in-depth look at the constellation of influences that affect individual learning. *How People Learn II* will become an indispensable resource to understand learning throughout the lifespan for educators of students and adults.

AN INTRODUCTION TO PROJECT MODELING AND PLANNING

Springer Nature This textbook teaches the basic concepts and methods of project management but also explains how to convert them to useful results in practice. Project management offers a promising working area for theoretical and practical applications, and developing software and decision support systems (DSS). This book specifically focuses on project planning and control, with an emphasis on mathematical modeling. Models and algorithms establish a good starting point for students to study the relevant literature and support pursuing academic work in related fields. The book provides an introduction to theoretical concepts, and it also provides detailed explanations, application examples, and case studies that deal with real-life problems. The chapter topics include questions that underlie critical thinking, interpretation, analytics, and making comparisons. Learning outcomes are defined and the content of the book is structured following these goals. Chapter 1 begins by introducing the basic concepts, methods, and processes of project management. This Chapter constitutes the base for defining and modeling project management problems. Chapter 2 explores the fundamentals of organizing and managing projects from an organization’s perspective. Issues related to project team formation, the role of project managers, and organization types are discussed. Chapter 3 is devoted to project planning and network modeling of projects, covering fundamental concepts such as project scope, Work Breakdown Structure (WBS), Organizational Breakdown Structure (OBS), Cost Breakdown Structure (CBS), project network modeling, activity duration, and cost estimating, activity-based costing (ABC), data and knowledge management. Chapter 4 introduces deterministic scheduling models, which can be used in constructing the time schedules. Models employing time-based and finance-based objectives are introduced. The CPM is covered. The unconstrained version of maximizing Net Present Value (NPV) is also treated here together with the case of time-dependent cash flows. Chapter 5 focuses on the time/cost trade-off problem, explaining how to reduce the duration of some of the activities and therefore reduce the project duration at the expense of additional costs. This topic is addressed for both continuous and discrete cases. Chapter 6 discusses models and methods of scheduling under uncertain activity durations. PERT is introduced for minimizing the expected project duration and extended to the PERT-Costing method for minimizing the expected project cost. Simulation is presented as another approach for dealing with the uncertainty in activity durations and costs. To demonstrate the use of the PERT, a case study on constructing an earthquake-resistant residential house is presented. Classifications of resource and schedule types are given in Chapter 7, and exact and heuristic solution procedures for the single- and multi-mode resource constrained project scheduling problem (RCPS) are presented. The objective of maximizing NPV under resource constraints is addressed, and the capital-constrained project scheduling model is introduced. In Chapter 8, resource leveling, and further resource management problems are introduced. Total adjustment cost and resource availability cost problems are introduced. Various exact models are investigated. A heuristic solution procedure for the resource leveling problem is presented in detail. Also, resource portfolio management policies and the resource portfolio management problem are discussed. A case study on resource leveling dealing with the annual audit project of a major corporation is presented. Project contract types and payment schedules constitute the topics of Chapter 9. Contracts are legal documents reflecting the results of some form of client-contractor negotiations and sometimes of a bidding process, which deserve closer attention. Identification and allocation of risk in contracts, project control issues, disputes, and resolution management are further topics covered in this Chapter. A bidding model is presented to investigate client-contractor negotiations and the bidding process from different aspects. Chapter 10 focuses on processes and methods for project monitoring and control. Earned Value Management is studied to measure the project performance throughout the life of a project and to estimate the expected project time and cost based on the current status of the project. How to incorporate inflation into the analysis is presented. In Chapter 11, qualitative and quantitative techniques including decision trees, simulation, and software applications are introduced. Risk phases are defined and building a risk register is addressed. An example risk breakdown structure is presented. The design of risk management processes is introduced, and risk response planning strategies are discussed. At the end of the Chapter, the quantitative risk analysis is demonstrated at the hand of a team discussion case study. Chapter 12 covers several models and approaches dealing with various stochastic aspects of the decision environment. Stochastic models, generation of robust schedules, use of reactive and fuzzy approaches are presented. Sensitivity and scenario analysis are introduced. Also, simulation analysis, which is widely used to analyze the impacts of uncertainty on project goals, is presented. Chapter 13 addresses repetitive projects that involve the production or construction of similar units in batches such as railway cars or residential houses. Particularly in the construction industry repetitive projects represent a large portion of the work accomplished in this sector of the economy. A case study on the 50 km section of a motorway project is used for demonstrating the handling of repetitive project management. How best to select one or more of a set of candidate projects to maintain a project portfolio is an important problem for project-based organizations with limited resources. The project selection problem is inherently a multi-objective problem and is treated as such in Chapter 14. Several models and solution techniques are introduced. A multi-objective, multi-period project selection and scheduling model is presented. A case study that addresses a project portfolio selection and scheduling problem for the construction of a set of dams in a region is presented. Finally, Chapter 15 discusses three promising research areas in project management in detail: (i) Sustainability and Project Management, (ii) Project Management in the Era of Big Data, and (iii) the Fourth Industrial Revolution and the New Age Project Management. We elaborate on the importance of sustainability in project management practices, discuss how developments in data analytics might impact project life cycle management, and speculate how the infinite possibilities of the Fourth Industrial Revolution and the new technologies will transform project management practices.

LECTURES ON CONTEMPORARY PROBABILITY

American Mathematical Soc. Based on lectures and computer labs held at the IAS/Park City Mathematics Institute, this book presents areas of current research in modern probability that are accessible to undergraduate students. The subjects include: random walks, Brownian motion, card shuffling, spanning trees, and Markov chain Monte Carlo. There are computer simulations for random walks, Markov chains, stochastic differential equations as applied to finance, and other topics.

ACCOUNTING PROBLEM SOLVER

Research & Education Assoc. Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. Nothing remotely as comprehensive or as helpful exists in their subject anywhere. Perfect for undergraduate and graduate studies. Here in this highly useful reference is the finest overview of accounting currently available, with hundreds of accounting problems that cover everything from interest and cash flow to taxes and corporate earnings. Each problem is clearly solved with step-by-step detailed solutions. DETAILS - The PROBLEM SOLVERS are unique - the ultimate in study guides. - They are ideal for helping students cope with the toughest subjects. - They greatly simplify study and learning tasks. - They enable students to come to grips with difficult problems by showing them the way, step-by-step, toward solving problems. As a result, they save hours of frustration and time spent on groping for answers and understanding. - They cover material ranging from the elementary to the advanced in each subject. - They work exceptionally well with any text in its field. - PROBLEM SOLVERS are available in 41 subjects. - Each PROBLEM SOLVER is prepared by supremely knowledgeable experts. - Most are over 1000 pages. - PROBLEM SOLVERS are not meant to be read cover to cover. They offer whatever may be needed at a given time. An excellent index helps to locate specific problems rapidly. - Educators consider the PROBLEM SOLVERS the most effective and valuable study aids; students describe them as "fantastic" - the best books on the market. TABLE OF CONTENTS Introduction Chapter 1: Earnings Per Share of the Corporation Chapter 2: Stocks Chapter 3: Retained Earnings Chapter 4: Earning Per Share of the Corporation Chapter 5: Investments in Stocks and Bonds Chapter 6: The Balance Sheet Chapter 7: Interest and Money's Value Chapter 8: Cash and Receivables Chapter 9: Inventories Chapter 10: Determination of Ending Inventories Chapter 11: Long-Term Assets Chapter 12: Depreciation, Depletion, and Amortization Chapter 13: Intangible Assets Chapter 14: Current Liabilities Chapter 15: Long-Term Liabilities Chapter 16: Recognizing Revenue Chapter 17: Income Tax Accounting Chapter 18: Accounting for Pensions Chapter 19: Leases Chapter 20: Changes in Accounting Systems and Analysis of Errors Chapter 21: Cash Flow Chapter 22: Analysis of Financial Statements Index WHAT THIS BOOK IS FOR Students have generally found accounting a difficult subject to understand and learn. Despite the publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of accounting continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems. Various interpretations of accounting terms also contribute to the difficulties of mastering the subject. In a study of accounting, REA found the following basic reasons underlying the inherent difficulties of accounting: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and principles involved in a problem that leads to many possible different

solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by an accounting professional who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying and organizing accounting processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to accounting than to other subjects, because they are uncertain with regard to the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is intended to aid students in accounting overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review/outline books. The staff of REA considers accounting a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is similar to that practiced in various scientific laboratories, particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom. When students want to look up a particular type of problem and solution, they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular type of problem by glancing at just the material within the boxed portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.