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*TEXTBOOK OF FINITE ELEMENT ANALYSIS* - P. SESHU 2003-01-01  
Designed for a one-semester course in Finite Element Method, this compact and well-organized text presents FEM as a tool to find approximate solutions to differential equations. This provides the student a better perspective on the technique and its wide range of applications. This approach reflects the current trend as the present-day applications range from structures to biomechanics to electromagnetics, unlike in conventional texts that view FEM primarily as an extension of matrix methods of structural analysis. After an introduction and a review of mathematical preliminaries, the book gives a detailed discussion on FEM as a technique for solving differential equations and variational formulation of FEM. This is followed by a lucid presentation of one-dimensional and two-dimensional finite elements and finite element formulation for dynamics. The book concludes with some case studies that focus on industrial problems and Appendices that include mini-project topics based on near-real-life problems. Postgraduate/Senior undergraduate students of civil, mechanical and aeronautical engineering will find this text extremely useful; it will also appeal to the practising engineers and the teaching community.

**Analysis of Boolean Functions** - Ryan O'Donnell 2014-06-05

This graduate-level text gives a thorough overview of the analysis of Boolean functions, beginning with the most basic definitions and proceeding to advanced topics.

**The Theory of Structures** - Charles Milton Spofford 2018-02-07

This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

**Maintenance Engineering Handbook** - Keith Mobley 2008-04-20

Stay Up to Date on the Latest Issues in Maintenance Engineering The most comprehensive resource of its kind, Maintenance Engineering Handbook has long been a staple for engineers, managers, and technicians seeking current advice on everything from tools and techniques to planning and scheduling. This brand-new edition brings you up to date on the most pertinent aspects of identifying and repairing faulty equipment; such dated subjects as sanitation and housekeeping have been removed. Maintenance Engineering Handbook has been advising plant and facility professionals for more than 50 years. Whether you're new to the profession or a practiced veteran, this updated edition is an absolute necessity. New and updated sections include: Belt Drives, provided by the Gates Corporation Repair and Maintenance Cost Estimation Ventilation Fans and Exhaust Systems 10 New Chapters on Maintenance of Mechanical Equipment Inside: • Organization and Management of the Maintenance Function • Maintenance Practices • Engineering and Analysis Tools • Maintenance of Facilities and Equipment • Maintenance of Mechanical Equipment • Maintenance of Electrical Equipment • Instrumentation and Reliability Tools •

Lubrication • Maintenance Welding • Chemical Corrosion Control and Cleaning

*Handbook on Constructing Composite Indicators: Methodology and User Guide* - OECD 2008-08-22

A guide for constructing and using composite indicators for policy makers, academics, the media and other interested parties. In particular, this handbook is concerned with indicators which compare and rank country performance.

**An Introduction to Computational Fluid Dynamics The Finite Volume Method, 2/e** - Versteeg 2007

*Abortion and the Law in America* - Mary Ziegler 2020-03-31

With the Supreme Court likely to reverse *Roe v. Wade*, the landmark abortion decision, American debate appears fixated on clashing rights. The first comprehensive legal history of a vital period, *Abortion and the Law in America* illuminates an entirely different and unexpected shift in the terms of debate. Rather than simply championing rights, those on opposing sides battled about the policy costs and benefits of abortion and laws restricting it. This mostly unknown turn deepened polarization in ways many have missed. Never abandoning their constitutional demands, pro-choice and pro-life advocates increasingly disagreed about the basic facts. Drawing on unexplored records and interviews with key participants, Ziegler complicates the view that the Supreme Court is responsible for the escalation of the conflict. A gripping account of social-movement divides and crucial legal strategies, this book delivers a definitive recent history of an issue that transforms American law and politics to this day.

**An Introduction to Quantum Computing** - Phillip Kaye 2007

The authors provide an introduction to quantum computing. Aimed at advanced undergraduate and beginning graduate students in these disciplines, this text is illustrated with diagrams and exercises.

*Mastering AutoCAD 2000* - George Omura 1999-05-27

Mastering AutoCAD 2000, the fully revised edition of Omura's all-time best-seller, is your one-stop authority on the latest release of AutoCAD. If you're new to this powerful design tool, this book gets you started using AutoCAD right away with a tutorial approach that provides step-by-step instructions on how to accomplish everyday tasks. If you're an experienced user, this book offers in-depth explanations of AutoCAD's most advanced features, including multi-drawing interactivity, database access and using VBA to increase efficiency. No matter what your experience level, this is an indispensable resource that you'll keep on your desk and refer to again and again. Become a Master \* Find your way around the AutoCAD interface \* Create and developing an AutoCAD drawing \* Manage your drawing projects \* Ensure that your drawings print properly \* Improve your efficiency with AutoCAD \* Align points with existing elements \* Preview your drawings using WYSIWYG plotting \* Capitalize on hidden or hard-to-find features \* Work with multiple documents \* Master the 3D modeling and rendering process \* Use VBA and other techniques to customize AutoCAD \* Collaborate with others on large-scale AutoCAD projects \* Take advantage of AutoCAD's Internet features \* Combine tools to accomplish complex tasks

**Implementing Health Financing Reform** - Joseph Kutzin 2010

Since 1990, the social and economic policies of the transition countries of central and eastern Europe, the Caucasus and central Asia have diverged, including the way they have reformed the financing of their health systems. This book analyses this rich experience in a systematic way. It reviews the background to health financing systems and reform in these countries, starting with the legacy of the systems in the USSR and central and eastern Europe before 1990 and the consequences

(particularly fiscal) of the transition for their organization and performance. From practical experience of implementing, advising or evaluating health financing policies in the region, the authors offer important lessons, as well as pitfalls to avoid in the reform process. This book is essential reading for health finance policy-makers, advisers and analysts in this region and beyond.

**A Global History of Runaways** - Marcus Rediker 2019-07-30

During global capitalism's long ascent from 1600-1850, workers of all kinds—slaves, indentured servants, convicts, domestic workers, soldiers, and sailors—repeatedly ran away from their masters and bosses, with profound effects. *A Global History of Runaways*, edited by Marcus Rediker, Titas Chakraborty, and Matthias van Rossum, compares and connects runaways in the British, Danish, Dutch, French, Mughal, Portuguese, and American empires. Together these essays show how capitalism required vast numbers of mobile workers who would build the foundations of a new economic order. At the same time, these laborers challenged that order—from the undermining of Danish colonization in the seventeenth century to the igniting of civil war in the United States in the nineteenth.

**Geotechnical Engineering** - Donald P. Coduto 2011

*Geotechnical Engineering: Principles and Practices, 2/e*, is ideal for junior-level soil mechanics or introductory geotechnical engineering courses. This introductory geotechnical engineering textbook explores both the principles of soil mechanics and their application to engineering practice. It offers a rigorous, yet accessible and easy-to-read approach, as well as technical depth and an emphasis on understanding the physical basis for soil behavior. The second edition has been revised to include updated content and many new problems and exercises, as well as to reflect feedback from reviewers and the authors' own experiences.

**A Text Book of Engineering Drawing** - R.K.Dhawan 2012-07

this book includes Geometrical Drawing & Computer Aided Drafting in First Angle Projection. Useful for the students of B.E./B.Tech for different Technological Universities of India. Covers all the topics of engineering drawing with simple explanation.

**Introduction to Evolutionary Computing** - Agoston E. Eiben 2013-03-14

The first complete overview of evolutionary computing, the collective name for a range of problem-solving techniques based on principles of biological evolution, such as natural selection and genetic inheritance. The text is aimed directly at lecturers and graduate and undergraduate students. It is also meant for those who wish to apply evolutionary computing to a particular problem or within a given application area. The book contains quick-reference information on the current state-of-the-art in a wide range of related topics, so it is of interest not just to evolutionary computing specialists but to researchers working in other fields.

**The Philosophy Book** - DK 2015-03-02

What existed before the Universe was created? Where does self-worth come from? Do the ends always justify the means? The Philosophy Book answers the most profound questions we all have. It is your visual guide to the fundamental nature of existence, society, and how we think. Discover what it means to be free, whether science can predict the future, or how language shapes our thoughts. Learn about the world's greatest philosophers, from Plato and Confucius to modern thinkers such as Chomsky and Derrida and follow charts and timelines that graphically show the progression of ideas and logic. Written in plain English, with concise explanations of branches of philosophy such as metaphysics and ethics, it untangles complicated theories and makes sense of abstract concepts. It is an ideal reference whether you're a student or a general reader, with simple explanations of big ideas, including the four noble truths, the soul, class struggle, moral purpose, and good and evil. If you're curious about the deeper questions in life, The Philosophy Book is both an invaluable reference and illuminating read.

**Making and Being** - Susan Jahoda 2020-01-23

"Making and Being draws on the lived experience of Susan Jahoda and Caroline Woolard, visual arts educators who have developed a framework for teaching art with the collective BFAMDAPhD that emphasizes contemplation, collaboration, and political economy. The authors share ideas and pedagogical strategies that they have adapted to spaces of learning which reange widely, from self-organized workshops for professional artists to Foundations BFA and MFA thesis classes. This hands-on guide includes activities, worksheets, and assignments and is a critical resource for artists and art educator's today"--Page 4 of cover.

**The Architecture of Deconstruction** - Mark Wigley 1993

By locating the architecture already hidden within deconstructive discourse, Wigley opens up more radical possibilities for both

architecture and deconstruction.

**Discrete Mathematics** - Oscar Levin 2018-12-31

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at [discrete.openmathbooks.org](http://discrete.openmathbooks.org)

**The Civil Engineering Handbook** - W.F. Chen 2002-08-29

First published in 1995, the award-winning Civil Engineering Handbook soon became known as the field's definitive reference. To retain its standing as a complete, authoritative resource, the editors have incorporated into this edition the many changes in techniques, tools, and materials that over the last seven years have found their way into civil engineering research and practice. The Civil Engineering Handbook, Second Edition is more comprehensive than ever. You'll find new, updated, and expanded coverage in every section. In fact, more than 1/3 of the handbook is new or substantially revised. In particular you'll find increased focus on computing reflecting the rapid advances in computer technology that has revolutionized many aspects of civil engineering. You'll use it as a survey of the field, you'll use it to explore a particular subject, but most of all you'll use The Civil Engineering Handbook to answer the problems, questions, and conundrums you encounter in practice.

**Critical Zones** - Bruno Latour 2020-10-13

Artists and writers portray the disorientation of a world facing climate change. This monumental volume, drawn from a 2020 exhibition at the ZKM Center for Art and Media, portrays the disorientation of life in world facing climate change. It traces this disorientation to the disconnection between two different definitions of the land on which modernizing humans live: the sovereign nation from which they derive their rights, and another one, hidden, from which they gain their wealth—the land they live on, and the land they live from. Charting the land they will inhabit, they find not a globe, not the iconic "blue marble," but a series of critical zones—patchy, heterogenous, discontinuous. With short pieces, longer essays, and more than 500 illustrations, the contributors explore the new landscape on which it may be possible for humans to land—what it means to be "on Earth," whether the critical zone, the Gaia, or the terrestrial. They consider geopolitical conflicts and tools redesigned for the new "geopolitics of life forms." The "thought exhibition" described in this book can open a fictional space to explore the new climate regime; the rest of the story is unknown. Contributors include Dipesh Chakrabarty, Pierre Charbonnier, Emanuele Coccia, Vinciane Despret, Jérôme Gaillarde, Donna Haraway, Joseph Leo Koerner, Timothy Lenton, Richard Powers, Simon Schaffer, Isabelle Stengers, Bronislaw Szerszynski, Jan A. Zalasiewicz, Siegfried Zielinski Copublished with ZKM | Center for Art and Media Karlsruhe

**Photochemistry** - Angelo Albini 2019-09-27

Drawing on the continued wealth of photochemical research, this volume combines reviews on the latest advances in the field with specific topical highlights. Starting with periodical reports of the recent literature on physical and inorganic aspects, light induced reactions in cryogenic matrices, properties of transition-metal compounds, time-resolved spectroscopy, the exploitation of solar energy and the molecules of colour. Coverage continues with highlighted topics, in the second part, from photoresponsive hydrogels, the tunable photoredox properties of organic dyes, light-driven asymmetric organocatalytic processes, dual gold-photoredox catalysis, the preparation and characterization of

photosensitizers for triplet-triplet annihilation photon upconversion and the role of photochemistry on traditional synthetic processes. This volume will include for the first time a section entitled 'SPR Lectures on Photochemistry', providing examples for academic readers to introduce a photochemistry topic and precious help for students in photochemistry. Providing critical analysis of the topics, this book is essential reading for anyone wanting to keep up to date with the literature on photochemistry and its applications.

Civil Engineering Drawing (2nd Edition) - Malik & Meo 2010-01-01

**Civil Drafting Technology** - David A. Madsen Emeritus 2011-11-21

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Civil Drafting Technology Seventh Edition covers it all—basic and advanced topics—and everything in between, equipping readers to convert engineering sketches or instructions into actual formal drawings and gain a working knowledge of mapping. Using a “knowledge building” format where one concept is mastered before the next is introduced, Civil Drafting Technology includes: Basic Drafting Topics Maps: fundamentals, types of maps, scales, symbols CADD: use, standards, applications Intermediate/Advanced Topics Measuring distance and elevation, Surveying, Location & Direction, Legal Descriptions and Plot Plans, Contour Lines, Horizontal Alignment Layout, GIS Career Development Schooling, Employment, Workplace Ethics, Professional Organizations CADD Applications Content-related Tests Real-world drafting and design problems

Counterfeit Integrated Circuits - Mark (Mohammad) Tehranipour 2015-02-12

This timely and exhaustive study offers a much-needed examination of the scope and consequences of the electronic counterfeit trade. The authors describe a variety of shortcomings and vulnerabilities in the electronic component supply chain, which can result in counterfeit integrated circuits (ICs). Not only does this book provide an assessment of the current counterfeiting problems facing both the public and private sectors, it also offers practical, real-world solutions for combatting this substantial threat. · Helps beginners and practitioners in the field by providing a comprehensive background on the counterfeiting problem; · Presents innovative taxonomies for counterfeit types, test methods, and counterfeit defects, which allows for a detailed analysis of counterfeiting and its mitigation; · Provides step-by-step solutions for detecting different types of counterfeit ICs; · Offers pragmatic and practice-oriented, realistic solutions to counterfeit IC detection and avoidance, for industry and government.

An Introductory Course of Particle Physics - Palash B. Pal 2014-07-29

For graduate students unfamiliar with particle physics, An Introductory Course of Particle Physics teaches the basic techniques and fundamental theories related to the subject. It gives students the competence to work out various properties of fundamental particles, such as scattering cross-section and lifetime. The book also gives a lucid summary of the main ideas involved. In giving students a taste of fundamental interactions among elementary particles, the author does not assume any prior knowledge of quantum field theory. He presents a brief introduction that supplies students with the necessary tools without seriously getting into the nitty-gritty of quantum field theory, and then explores advanced topics in detail. The book then discusses group theory, and in this case the author assumes that students are familiar with the basic definitions and properties of a group, and even  $SU(2)$  and its representations. With this foundation established, he goes on to discuss representations of continuous groups bigger than  $SU(2)$  in detail. The material is presented at a level that M.Sc. and Ph.D. students can understand, with exercises throughout the text at points at which performing the exercises would be most beneficial. Anyone teaching a one-semester course will probably have to choose from the topics covered, because this text also contains advanced material that might not be covered within a semester due to lack of time. Thus it provides the teaching tool with the flexibility to customize the course to suit your needs.

Estimating Costing Specification And Valuation In Civil Engineering - M. Chakraborti 1992

**Game Theory** - Steven Tadelis 2013-01-10

The definitive introduction to game theory This comprehensive textbook introduces readers to the principal ideas and applications of game theory, in a style that combines rigor with accessibility. Steven Tadelis begins with a concise description of rational decision making, and goes on to discuss strategic and extensive form games with complete

information, Bayesian games, and extensive form games with imperfect information. He covers a host of topics, including multistage and repeated games, bargaining theory, auctions, rent-seeking games, mechanism design, signaling games, reputation building, and information transmission games. Unlike other books on game theory, this one begins with the idea of rationality and explores its implications for multiperson decision problems through concepts like dominated strategies and rationalizability. Only then does it present the subject of Nash equilibrium and its derivatives. Game Theory is the ideal textbook for advanced undergraduate and beginning graduate students. Throughout, concepts and methods are explained using real-world examples backed by precise analytic material. The book features many important applications to economics and political science, as well as numerous exercises that focus on how to formalize informal situations and then analyze them. Introduces the core ideas and applications of game theory Covers static and dynamic games, with complete and incomplete information Features a variety of examples, applications, and exercises Topics include repeated games, bargaining, auctions, signaling, reputation, and information transmission Ideal for advanced undergraduate and beginning graduate students Complete solutions available to teachers and selected solutions available to students Graph Drawing and Network Visualization - Helen C. Purchase 2021-12-22

This book constitutes the proceedings of the 28th International Symposium on Graph Drawing and Network Visualization, GD 2021, which was held in Tübingen, Germany, during September 14-17, 2021. The 23 full papers and 5 short papers presented in these proceedings were carefully reviewed and selected from 74 submissions. The abstracts of 13 posters presented at the conference can be found in the back matter of the volume. The contributions were organized in topical sections as follows: Best Paper (Track 1: Combinatorial and Algorithmic Aspects); Best Paper (Track 2: Experimental, Applied, and Network Visualization Aspects); Crossing Minimization and Beyond-Planarity; Morphing and Graph Abstraction; Geometric Constraints; Topological and Upward Drawings; Linear Layouts; Contact and Visibility Representations; Geometric Aspects in Graph Drawing; AI applications; and Graph Drawing Contest Report.

**Housing and SDGs in Urban Africa** - Timothy Gbenga Nubi 2021-03-08

There is a dearth of collections of scholarly works dedicated wholly to African issues, that comes out of the work done by African scholars and practitioners with both African collaborators and from elsewhere. This volume brings together scholarly works and thoughts that cut across and intertwine the tripods-environment-consciousness, socially just development and African development into options that could deliver on the promise of the SDGs. The book project is an initiative of the Centre for Housing and Sustainable Development at the University of Lagos, which realized the gap in ground research linking the housing sector with the SDGs in African cities. This book therefore presents chapters that explore the interconnections, interactions and linkages between the SDGs and Housing through research, practice, experience, case-studies, desk-based research and other knowledge media.

Civil Engineering Drawing And House Planning - B. P. Verma 1986

A First Course in Design and Analysis of Experiments - Gary W. Oehlert 2000-01-19

Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three practical themes to students: · when to use various designs · how to analyze the results · how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

**Fuzzy Set Theory — and Its Applications** - Hans-Jürgen Zimmermann 2013-12-01

**Fundamentals of Structural Analysis** - Kenneth Leet 2008

Fundamentals of Structural Analysis third edition introduces engineering and architectural students to the basic techniques for analyzing the most common structural elements, including beams, trusses, frames, cables, and arches. Leet et al cover the classical methods of analysis for determinate and indeterminate structures, and provide an introduction to the matrix formulation on which computer analysis is based. Third edition users will find that the text's layout has improved to better

illustrate example problems, superior coverage of loads is given in Chapter 2 and over 25% of the homework problems have been revised or are new to this edition.

**The Social Contract** - Jean-Jacques Rousseau 2017-07-31

In *The Social Contract*, Rousseau wrote one of the most influential studies ever made. It is as relevant today as when it was first published more than 250 years ago. Political society, Rousseau argued, required each individual to submit their personal desires to the 'general will'. At the same time, there was no 'divine right' of the monarchy to allow them to act as they pleased. Therefore, there must be a social contract between governor and governed - the only truly legitimate form of government. Rousseau's ideas influenced both the French and American Revolutions and created the foundations of the liberal democratic societies we live in today.

**Earthquake Resistant Design and Risk Reduction** - David J. Dowrick 2009-07-20

*Earthquake Resistant Design and Risk Reduction*, 2nd edition is based upon global research and development work over the last 50 years or more, and follows the author's series of three books *Earthquake Resistant Design*, 1st and 2nd editions (1977 and 1987), and *Earthquake Risk Reduction* (2003). Many advances have been made since the 2003 edition of *Earthquake Risk Reduction*, and there is every sign that this rate of progress will continue apace in the years to come. Compiled from the author's wide design and research experience in earthquake engineering and engineering seismology, this key text provides an excellent treatment of the complex multidisciplinary process of earthquake resistant design and risk reduction. New topics include the creation of low-damage structures and the spatial distribution of ground shaking near large fault ruptures. Sections on guidance for developing countries, response of buildings to differential settlement in liquefaction, performance-based and displacement-based design and the architectural aspects of earthquake resistant design are heavily revised. This book: Outlines individual national weaknesses that contribute to earthquake risk to people and property Calculates the seismic response of soils and structures, using the structural continuum "Subsoil - Substructure - Superstructure - Non-structure" Evaluates the effectiveness of given design and construction procedures for reducing casualties and financial losses Provides guidance on the key issue of choice of structural form Presents earthquake resistant design methods for the main four structural materials - steel, concrete, reinforced masonry and timber - as well as for services equipment, plant and non-structural architectural components Contains a chapter devoted to problems involved in improving (retrofitting) the existing built environment This book is an invaluable reference and guiding tool to practising civil and structural engineers and architects, researchers and postgraduate students in earthquake engineering and engineering seismology, local governments and risk management officials.

**Food Process Engineering and Technology** - Zeki Berk 2018-02-13

*Food Process Engineering and Technology*, Third Edition combines scientific depth with practical usefulness, creating a tool for graduate students and practicing food engineers, technologists and researchers looking for the latest information on transformation and preservation processes and process control and plant hygiene topics. This fully updated edition provides recent research and developments in the area, features sections on elements of food plant design, an introductory section on the elements of classical fluid mechanics, a section on non-thermal processes, and recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are

discussed in detail. Provides a strong emphasis on the relationship between engineering and product quality/safety Considers cost and environmental factors Presents a fully updated, adequate review of recent research and developments in the area Includes a new, full chapter on elements of food plant design Covers recent technologies, such as freeze concentration, osmotic dehydration, and active packaging that are discussed in detail

**Building Planning and Drawing** - S. S. Bhavikatti 2014-06-30

Deals with good ventilation, thermal comfort, and acoustic requirements when planning a building. As well as satisfying minimum standards and the regulations of local authorities, economics and future expansions are considered. The book also discusses building drawings created through computer aided design.

**Physical Foundations of Cosmology** - Viatcheslav Mukhanov 2005-11-10

Inflationary cosmology has been developed over the last twenty years to remedy serious shortcomings in the standard hot big bang model of the universe. This textbook, first published in 2005, explains the basis of modern cosmology and shows where the theoretical results come from. The book is divided into two parts; the first deals with the homogeneous and isotropic model of the Universe, the second part discusses how inhomogeneities can explain its structure. Established material such as the inflation and quantum cosmological perturbation are presented in great detail, however the reader is brought to the frontiers of current cosmological research by the discussion of more speculative ideas. An ideal textbook for both advanced students of physics and astrophysics, all of the necessary background material is included in every chapter and no prior knowledge of general relativity and quantum field theory is assumed.

**Addressing Adversity** - Marc Bush 2018-02-08

An edited collection of papers published by YoungMinds and funded by Health Education England. With 1 in 3 adult mental health conditions related directly to adverse childhood experiences, it is vital that we understand the impact that adversity and trauma can have on the mental health and wellbeing of young people, and how we can strengthen resilience and support recovery. *Addressing Adversity* presents evidence, insight, direction and case studies for commissioners, providers and practitioners in order to stimulate further growth in adversity and trauma-informed care, and spark innovation and good practice across England. Section 1: Understanding adversity, trauma and resilience includes evidence and analysis of the impact that adverse childhood experiences and trauma have on children and young people's mental health and wider outcomes across the lifecourse. Section 2: Addressing childhood adversity and trauma includes insights from the NHS in England, organisations and clinicians working with children and young people who have experienced forms of adversity and trauma. Section 3: Emerging good practice includes insight, case studies and working examples of adversity and trauma-informed service models being developed across England. The collection ends with an agenda for change, calling on all Directors of Public Health, commissioners and providers to make adversity and trauma-informed care a priority in their locality.

**The Charles Bargue Drawing Course** - Charles Bargue 2014-04

Nearly 200 plates from the master teacher's famous 19th-century drawing course comprise drawings of casts, chiefly from antiquity; lithographs in the style of drawings by Renaissance and modern masters; and male nudes. This affordable volume constitutes an essential guide for professional artists, students, art historians, and collectors.