

Advanced Engineering Dynamics By R Valery Roy

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Publishers' Circular and Booksellers' Record of British and Foreign Literature 1955

Nanomaterials by Severe Plastic Deformation Michael J. Zehetbauer 2006-03-06 These proceedings of the "Second International Conference on Nanomaterials by Severe Plastic Deformation" review the enormous scientific avalanche that has been developing in the field over recent years. A valuable resource for any scientist and engineer working in this emerging field of nanotechnology.

Peterson's Guide to Graduate Programs in Engineering and Applied Sciences 1996 Peterson's Guides Staff 1995-11 Provides information about admission, financial aid, programs and institutions, and research specialties within the fields of engineering and applied sciences, including civil engineering, information technology, and bioengineering.

Conservation Biology for All Navjot S. Sodhi 2010 Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.

Finite Element Methods for Flow Problems Jean Donea 2003-06-02 In recent years there have been significant developments in the development of stable and accurate finite element procedures for the numerical approximation of a wide range of fluid mechanics problems. Taking an engineering rather than a mathematical bias, this valuable reference resource details the fundamentals of stabilised finite element methods for the analysis of steady and time-dependent fluid dynamics problems. Organised into six chapters, this text combines theoretical aspects and practical applications and offers coverage of the latest research in several areas of computational fluid dynamics. * Coverage includes new and advanced topics unavailable elsewhere in book form * Collection in one volume of the widely dispersed literature reporting recent progress in this field * Addresses the key problems and offers modern, practical solutions Due to the balance between the concise explanation of the theory and the detailed description of modern practical applications, this text is suitable for a wide audience including academics, research centres and government agencies in aerospace, automotive and environmental engineering.

Polymers Coatings Inamuddin 2020-05-27 The explores the cutting-edge technology of polymer coatings. It discusses fundamentals, fabrication strategies, characterization techniques, and allied applications in fields such as corrosion, food, pharmaceutical, biomedical systems and electronics. It also discusses a few new innovative self-healing, antimicrobial and superhydrophobic polymer coatings. Current industrial applications and possible potential activities are also discussed.

The Method of Fractional Steps Nikolaj N. Yanenko 2012-12-06 The method of. fractional steps, known familiarly as the method oi splitting, is a remarkable technique, developed by N. N. Yanenko and his collaborators, for solving problems in theoretical mechanics numerically. It is applicable especially to potential problems, problems of elasticity and problems of fluid dynamics. Most of the applications at the present time have been to incompressible flow with free bound aries and to viscous flow at low speeds. The method offers a powerful means of solving the Navier-Stokes equations and the results produced so far cover a range of Reynolds numbers far greater than that attained in earlier

methods. Further development of the method should lead to complete numerical solutions of many of the boundary layer and wake problems which at present defy satisfactory treatment. As noted by the author very few applications of the method have yet been made to problems in solid mechanics and prospects for answers both in this field and other areas such as heat transfer are encouraging. As the method is perfected it is likely to supplant traditional relaxation methods and finite element methods, especially with the increase in capability of large scale computers. The literal translation was carried out by T. Cheron with financial support of the Northrop Corporation. The editing of the translation was undertaken in collaboration with N. N. Yanenko and it is a plea sure to acknowledge his patient help and advice in this project. The edited manuscript was typed, for the most part, by Mrs.

Classical and Quantum Dynamics in Condensed Phase Simulations Bruce J Berne 1998-06-17 The school held at Villa Marigola, Lerici, Italy, in July 1997 was very much an educational experiment aimed not just at teaching a new generation of students the latest developments in computer simulation methods and theory, but also at bringing together researchers from the condensed matter computer simulation community, the biophysical chemistry community and the quantum dynamics community to confront the shared problem: the development of methods to treat the dynamics of quantum condensed phase systems. This volume collects the lectures delivered there. Due to the focus of the school, the contributions divide along natural lines into two broad groups: (1) the most sophisticated forms of the art of computer simulation, including biased phase space sampling schemes, methods which address the multiplicity of time scales in condensed phase problems, and static equilibrium methods for treating quantum systems; (2) the contributions on quantum dynamics, including methods for mixing quantum and classical dynamics in condensed phase simulations and methods capable of treating all degrees of freedom quantum-mechanically. Contents:Barrier Crossing: Classical Theory of Rare but Important Events (D Chandler)Monte Carlo Simulations (D Frenkel)Molecular Dynamics Methods for the Enhanced Sampling of Phase Space (B J Berne)Constrained and Nonequilibrium Molecular Dynamics (G Ciccotti & M Ferrario)From Eyring to Kramers: Computation of Diffusive Barrier Crossing Rates (M J Ruiz-Montero)Monte Carlo Methods for Sampling of Rare Event States (W Janke)Proton Transfer in Ice (D Marx)Nudged Elastic Band Method for Finding Minimum Energy Paths of Transitions (H Jónsson et al.)RAW Quantum Transition State Theory (G Mills et al.)Dynamics of Peptide Folding (R Elber et al.)Theoretical Studies of Activated Processes in Biological Ion Channels (B Roux & S Crozy)The Semiclassical Initial Value Representation for Including Quantum Effects in Molecular Dynamics Simulations (W H Miller)Tunneling in the Condensed Phase: Barrier Crossing and Dynamical Control (N Makri)Feynman Path Centroid Methods for Condensed Phase Quantum Dynamics (G A Voth)Quantum Molecular Dynamics Using Wigner Representation (V S Filinov et al.)Nonadiabatic Molecular Dynamics Methods for Diffusion (D Laria et al.)and other papers Readership: Computational and statistical physicists. Keywords:Quantum;Molecular Dynamics;DynamicsReviews: "... this volume is a useful introduction to currently popular, and widely-used techniques in chemical and statistical physics. The authors are well-respected researchers in the field and the level is appropriate to graduate students and researchers." Journal of Statistical Physics

Postcoloniality Margaret A. Majumdar 2007 Postcolonial theory is one of the key issues of scholarly debates worldwide; debates, so the author argues, which are rather sterile and characterized by a repetitive reworking of old hackneyed issues, focussing on cultural questions of language and identity in particular. She explores the divergent responses to the debates on globalization.

The Psychic Life of Power Judith Butler 1997 Judith Butler's new book considers the way in which psychic life is generated by the social operation of power, and how that social operation of power is concealed and fortified by the psyche that it produces. It combines social theory, philosophy, and psychoanalysis in novel ways, and offers a more sustained analysis of the theory of subject formation implicit in her previous books.

Telematic Embrace Roy Ascott 2007-12-07 This is a compilation of more than three decades of the philosophies of pioneering British artist and theorist Roy Ascott, on aesthetics, interactivity and the sense of self and community in the telematic world of cyberspace.

The Oxford Handbook of Philosophy of Physics Robert Batterman 2013-03-14 This Oxford Handbook provides an overview of many of the topics that currently engage philosophers of physics. It surveys new issues and the problems that have become a focus of attention in recent years. It also provides up-to-date discussions of the still very important problems that dominated the field in the past. In the late 20th Century, the philosophy of physics was largely focused on orthodox Quantum Mechanics and Relativity Theory. The measurement problem, the question of the possibility of hidden variables, and the nature of quantum locality dominated the literature on the quantum mechanics, whereas questions about relationalism vs. substantivalism, and issues about underdetermination of theories dominated the literature on spacetime. These issues still receive considerable attention from philosophers, but many have shifted their attentions to other questions related to quantum mechanics and to spacetime theories. Quantum field theory has become a major focus, particularly from the point of view of algebraic foundations. Concurrent with these trends, there has been a focus on understanding gauge invariance and symmetries. The philosophy of physics has evolved even further in recent years with attention being paid to theories that, for the most part, were largely ignored in the past. For example, the relationship between thermodynamics and statistical mechanics—once thought to be a paradigm instance of unproblematic theory reduction—is now a hotly debated topic. The implicit, and sometimes explicit, reductionist methodology of both philosophers and physicists has been severely criticized and attention has now turned to the explanatory and descriptive roles of "non-fundamental," phenomenological theories. This shift of attention includes "old" theories such as classical mechanics, once deemed to be of little philosophical interest. Furthermore, some philosophers have become more interested in "less fundamental" contemporary physics such as condensed matter theory.

Questions abound with implications for the nature of models, idealizations, and explanation in physics. This Handbook showcases all these aspects of this complex and dynamic discipline.

Conserving the Enlightenment Janis Langins 2004 A study of French military engineers at a crucial point in the evolution of modern engineering. The origins of the modern science of engineering can be traced to France's Royal Corps of Engineering in the eighteenth century. In *Conserving the Enlightenment*, Janis Langins gives us a history of this prototypical technical bureaucracy, using as his point of entry a pivotal dispute on the respective merits of two methods of engineering military fortifications. The story he tells of the tribulations of military engineers at the end of the Old Regime sheds light not only on the evolution of modern engineering but also on the difficulty of innovation in a technical bureaucracy. From the days of Louis XIV and his great military engineer Vauban, engineers in France had a reputation for competence and intellectual superiority. (This respect for engineers survived the Revolution; two engineers sat on the new Republic's ruling Committee of Public Safety with Robespierre.) Langins argues that French engineers saw themselves as men of the Enlightenment, with a steadfast faith in science and its positive effects on society; they believed that their profession could improve and civilize even warfare. When Marc-Rene, marquis de Montalembert, a cavalry officer and an amateur engineer, challenged the prevailing wisdom with a new method of fortification, the subsequent factional struggle became a crucible of self-definition for the profession. In the end, Langins shows, Vauban's science won out over Montalembert's inspiration, reinforcing and predicting the essentially conservative nature of French engineering.

Numerical Analysis Timothy Sauer 2013-07-26 *Numerical Analysis, Second Edition*, is a modern and readable text for the undergraduate audience. This book covers not only the standard topics but also some more advanced numerical methods being used by computational scientists and engineers—topics such as compression, forward and backward error analysis, and iterative methods of solving equations—all while maintaining a level of discussion appropriate for undergraduates. Each chapter contains a Reality Check, which is an extended exploration of relevant application areas that can launch individual or team projects. MATLAB(r) is used throughout to demonstrate and implement numerical methods. The Second Edition features many noteworthy improvements based on feedback from users, such as new coverage of Cholesky factorization, GMRES methods, and nonlinear PDEs.

Linear Algebra: A Modern Introduction David Poole 2014-03-19 David Poole's innovative *LINEAR ALGEBRA: A MODERN INTRODUCTION*, 4e emphasizes a vectors approach and better prepares students to make the transition from computational to theoretical mathematics. Balancing theory and applications, the book is written in a conversational style and combines a traditional presentation with a focus on student-centered learning. Theoretical, computational, and applied topics are presented in a flexible yet integrated way. Stressing geometric understanding before computational techniques, vectors and vector geometry are introduced early to help students visualize concepts and develop mathematical maturity for abstract thinking. Additionally, the book includes ample applications drawn from a variety of disciplines, which reinforce the fact that linear algebra is a valuable tool for modeling real-life problems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Publishers' Circular and Booksellers' Record of British and Foreign Literature 1955

Dependable Computer Systems Wojciech Zamojski 2011-05-13 Dependability analysis is the recent approach to performance evaluation of contemporary systems which tries to cope with new challenges that are brought with their unprecedented complexity, size and diversity. Especially in case of computer systems and networks such evaluation must be based on multidisciplinary approach to theory, technology, and maintenance of systems which operate in real (and very often unfriendly) environments. As opposed to "classic" reliability which focuses mainly on technical aspects of system functioning, dependability studies investigate the systems as multifaceted and sophisticated amalgamations of technical, information and also human resources. This monograph presents selected new developments in such areas of dependability research as mathematical models, evaluation of software, probabilistic assessment, methodologies, tools, and technologies. Intelligent and soft computing methods help to resolve fundamental problems of dependability analysis which are caused by the fact that in contemporary computer systems it is often difficult to find a relation between system elements and system events (the relation between reasons and results) and it is even more difficult to define strict mathematical models with "analytical" relationships between such phenomena.

Theoretical Microfluidics Henrik Bruus 2007-09-27 Microfluidics is a young and rapidly expanding scientific discipline, which deals with fluids and solutions in miniaturized systems, the so-called lab-on-a-chip systems. It has applications in chemical engineering, pharmaceuticals, biotechnology and medicine. As the lab-on-a-chip systems grow in complexity, a proper theoretical understanding becomes increasingly important. The basic idea of the book is to provide a self-contained formulation of the theoretical framework of microfluidics, and at the same time give physical motivation and examples from lab-on-a-chip technology. After three chapters introducing microfluidics, the governing equations for mass, momentum and energy, and some basic flow solutions, the following 14 chapters treat hydraulic resistance/compliance, diffusion/dispersion, time-dependent flow, capillarity, electro- and magneto-hydrodynamics, thermal transport, two-phase flow, complex flow patterns and acousto-fluidics, as well as the new fields of opto- and nano-fluidics.

Throughout the book simple models with analytical solutions are presented to provide the student with a thorough physical understanding of order of magnitudes and various selected microfluidic phenomena and devices. The book grew out of a set of well-tested lecture notes. It is with its many pedagogical exercises designed as a textbook for an

advanced undergraduate or first-year graduate course. It is also well suited for self-study.

Information Management and Big Data Juan Antonio Lossio-Ventura 2019-02-07 This book constitutes the refereed proceedings of the 5th International Conference on Information Management and Big Data, SIMBig 2018, held in Lima, Peru, in September 2018. The 34 papers presented were carefully reviewed and selected from 101 submissions. The papers address issues such as data mining, artificial intelligence, Natural Language Processing, information retrieval, machine learning, web mining.

Dynamics and Optimal Control of Road Vehicles David J. N. Limebeer 2019 The broad aim of this text is to provide a comprehensive coverage of the modelling and optimal control of both two- and four-wheeled road vehicles. The first focus of the work is a review of classical mechanics and its use in building vehicle and tyre dynamic models. The second is nonlinear optimal control, which is used to solve a range of minimum-time, minimum-fuel, and track curvature reconstruction problems.

Perspectives On Supersymmetry Gordon Kane 1998-07-03 Supersymmetry is at an exciting stage of development. It extends the Standard Model of particle physics into a more powerful theory that both explains more and allows more questions to be addressed. Most important, it opens a window for studying and testing fundamental theories at the Planck scale. Experimentally we are finally entering the intensity and energy regions where superpartners are likely to be detected, and then studied. There has been progress in understanding the remarkable physics implications of supersymmetry, including the derivation of the Higgs mechanism, the unification of the Standard Model forces, cosmological connections such as a candidate for the cold dark matter of the universe and the scalar fields that drive inflation and their potential, the relationship to Planck scale theories, and more. While there are a number of reviews and books where the mathematical structure and uses of supersymmetry can be learned, there are few where the particle physics is the main focus. This book fills that gap. It begins with an excellent pedagogical introduction to the physics and methods and formalism of supersymmetry, by S Martin, which is accessible to anyone with a basic knowledge of the Standard Model of particle physics. Next is an overview of open questions by K Dienes and C Kolda, followed by chapters on topics ranging from how to detect superpartners to connections with Planck scale theories, by leading experts. This invaluable book will allow any interested physicist to understand the coming experimental and theoretical progress in supersymmetry, and will also help students and workers to quickly learn new aspects of supersymmetry they want to pursue.

Journal of Applied Mechanics 1993

Profiles, Mechanical Engineering 1987

International Journal of Energy Optimization and Engineering (IJEEO). Pandian Vasant 2013

Electrical Contacts Milenko Braunovic 2017-12-19 Various factors affect the performance of electrical contacts, including tribological, mechanical, electrical, and materials aspects. Although these behaviors have been studied for many years, they are not widely used or understood in practice. Combining approaches used across the globe, Electrical Contacts: Fundamentals, Applications, and Technology integrates advances in research and development in the tribological, material, and analytical aspects of electrical contacts with new data on electrical current transfer at the micro- and nanoscales. Taking an application-oriented approach, the authors illustrate how material characteristics, tribological behavior, and loading impact the degradation of contacts, formation of intermetallics, and overall reliability and performance. Coverage is divided broadly into three sections, with the first focused on mechanics, tribology, materials, current and heat transfer, and basic reliability issues of electrical contacts. The next section explores applications, such as power connections, electronic connections, and sliding contacts, while the final section presents the diagnostic and monitoring techniques used to investigate and measure phenomena occurring at electrical contact interfaces. Numerous references to current literature reflect the fact that this book is the most comprehensive survey in the field. Explore an impressive collection of data, theory, and practical applications in Electrical Contacts: Fundamentals, Applications, and Technology, a critical tool for anyone investigating or designing electrical equipment with improved performance and reliability in mind.

Bioengineering and Biomedical Signal and Image Processing Ignacio Rojas 2021-10-08 This book constitutes the refereed proceedings of the First International Conference on Bioengineering and Biomedical Signal and Image Processing, BIOMESIP 2021, held in Meloneras, Gran Canaria, Spain, in July 2021. The 41 full and 5 short papers were carefully reviewed and selected from 121 submissions. The papers are grouped in topical issues on biomedical applications in molecular, structural, and functional imaging; biomedical computing; biomedical signal measurement, acquisition and processing; computerized medical imaging and graphics; disease control and diagnosis; neuroimaging; pattern recognition and machine learning for biosignal data; personalized medicine; and COVID-19.

Advanced Engineering Mathematics Dennis Zill 2011 Accompanying CD-ROM contains ... "a chapter on engineering statistics and probability / by N. Bali, M. Goyal, and C. Watkins."--CD-ROM label.

The Development Of Large Technical Systems Renate Mayntz 2019-07-11 This book is an outcome of the conference on the development of large technical systems held in Berlin in 1986. It focuses on the comparative analysis of the development of large technical systems, particularly electrical power, railroad, air traffic, telephone, and other forms of telecommunication.

The Passion of Charles Péguy Glenn H. Roe 2014 In many ways, the development of twentieth-century literary criticism and theory can be seen as a prolonged struggle against the pervading influence of nineteenth-century positivist historicism. Anglo-American New Criticism and later French Post-structuralism and Deconstruction are the best-known instances of this conflict. Less widely known, but no less important to contemporary literary studies, are Charles Péguy's earlier debates with French academic historicism in the

years leading up to World War One. First examined by Antoine Compagnon in his ground-breaking work *La Troisième République des lettres* in 1983, it is a period in French literary and cultural history that remains, some thirty years later, largely untreated in English. This book thus addresses an important, albeit relatively unexplored, moment in the development of twentieth-century literary history and theory. By way of Péguy's foundational polemics with modernity and his role in the related "crisis of historicism," we gain a better understanding of the critical basis from which similar anti-positivist and anti-historicist critiques were later enacted on both sides of the Atlantic. In situating Péguy's passions and polemics within the larger cultural and historical context, Glenn H. Roe invites us to reconsider and re-evaluate Péguy's place among twentieth-century literary figures. Beyond its literary-critical aspects, *The Passion of Charles Péguy* provides a general view of early twentieth-century debates related to the role of literary studies in modern society, the reform of the French educational system, and the formation of literary history as an academic discipline in both France and abroad.

The Invention of Africa: Gnosis, Philosophy, and the Order of Knowledge Vy Mudimbe 2020-01-21 "... groundbreaking... clear, straightforward, and economical.... seminal... " ?American Anthropologist "This is a challenging book... a remarkable contribution to African intellectual history." ?International Journal of African Historical Studies "Mudimbe's description of the struggles over Africa's self-invention are vivid and rewarding. From Blyden to Sartre, Temples to Senghor, Mudimbe provides a bold and versatile resume of Africa's literary inventors." ?Village Voice Literary Supplement "... a landmark achievement in African studies." ?Journal of Religion in Africa In this unique and provocative book, Zairean philosopher and writer V. Y. Mudimbe addresses the multiple scholarly discourses that exist?African and non-African?concerning the meaning of Africa and being African.

Social Media and Democracy Nathaniel Persily 2020-08-31 A state-of-the-art account of what we know and do not know about the effects of digital technology on democracy.

Ecological Systems Rik Leemans 2012-12-12 Earth is home to an estimated 8 million animal species, 600,000 fungi, 300,000 plants, and an undetermined number of microbial species. Of these animal, fungal, and plant species, an estimated 75% have yet to be identified. Moreover, the interactions between these species and their physical environment are known to an even lesser degree. At the same time, the earth's biota faces the prospect of climate change, which may manifest slowly or extremely rapidly, as well as a human population set to grow by two billion by 2045 from the current seven billion. Given these major ecological changes, we cannot wait for a complete biota data set before assessing, planning, and acting to preserve the ecological balance of the earth. This book provides comprehensive coverage of the scientific and engineering basis of the systems ecology of the earth in 15 detailed, peer-reviewed entries written for a broad audience of undergraduate and graduate students as well as practicing professionals in government, academia, and industry. The methodology presented aims at identifying key interactions and environmental effects, and enabling a systems-level understanding even with our present state of factual knowledge.

ADVANCED ENGINEERING DYNAMICS. R. VALERY. ROY 2016

Advanced Engineering Dynamics R Valery Roy 2015-02-23 *Advanced Engineering Dynamics* was written for graduate students and research scientists in Mechanical Engineering. It covers a wide range of fundamental and advanced topics of engineering dynamics usually not found in a single tome. It is written in a compact, concise and rigorous style. The methods, tools and notations advocated in this book will appear to be novel to most readers. They hinge upon the use of mathematical objects called screws. Screws provide a simple yet powerful formalism which unifies all aspects of rigid body mechanics. Each chapter is illustrated by many examples which are essential to full comprehension of the subject. This book will be useful to a wide range of fields of application, such as robotics, spacecraft mechanics, or biomechanics. Content: Chapter 1: Position & Displacement. Chapter 2: Particle Kinematics. Chapter 3: Rigid Body Kinematics. Chapter 4: Screw Theory. Chapter 5: Kinematic Screw of a Rigid Body. Chapter 6: Relative Motion Analysis. Chapter 7: Kinematics of Constrained Bodies. Chapter 8: Kinematic Analysis of Mechanisms. Chapter 9: Mass Distribution. Chapter 10: Mechanical Actions. Chapter 11: Newton-Euler Formalism. Chapter 12: Power, Work & Energy. Chapter 13: Lagrange Equations. Chapter 14: Gibbs-Appell & Kane Equations. Chapter 15: Gyroscopic Phenomena. Chapter 16: Non-Newtonian Referentials. <http://enggdynamics.blogspot.com/>

The Routledge Handbook of Research Methods for Social-Ecological Systems Reinet Biggs 2021-07-29 *The Routledge Handbook of Research Methods for Social-Ecological Systems* provides a synthetic guide to the range of methods that can be employed in social-ecological systems (SES) research. The book is primarily targeted at graduate students, lecturers and researchers working on SES, and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds. Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation, and provides practical examples of the application of the methods. In addition, the book contains a conceptual and practical introduction to SES research, a discussion of key gaps and frontiers in SES research methods, and a glossary of key terms in SES research. Contributions from 97 different authors, situated at SES research hubs in 16 countries around the world, including South Africa, Sweden, Germany and Australia, bring a wealth of expertise and experience to this book. The first book to provide a guide and introduction specifically focused on methods for studying SES, this book will be of great interest to students and scholars of sustainability science, environmental management, global environmental change studies and environmental governance. The book will also be of interest to upper-level undergraduates and professionals working at the science-policy interface in the environmental arena.

Renegotiating French Identity Jane F. Fulcher 2018 In *Renegotiating French Identity*, Jane Fulcher addresses the question of cultural resistance to the German occupation and Vichy regime during the Second World War. Nazi Germany famously stressed music as a marker of national identity and cultural achievement, but so too did Vichy. From the

opera to the symphony, music did not only serve the interests of Vichy and German propaganda: it also helped to reveal the motives behind them, and to awaken resistance among those growing disillusioned by the regime. Using unexplored Resistance documents, from both the clandestine press and the French National Archives, Fulcher looks at the responses of specific artists and their means of resistance, addressing in turn Pierre Schaeffer, Arthur Honegger, Francis Poulenc, and Olivier Messiaen, among others. This book investigates the role that music played in fostering a profound awareness of the cultural and political differences between conflicting French ideological positions, as criticism of Vichy and its policies mounted.

Advances in Theory and Practice of Computational Mechanics Lakhmi C. Jain 2020-03-31 This book discusses physical and mathematical models, numerical methods, computational algorithms and software complexes, which allow high-precision mathematical modeling in fluid, gas, and plasma mechanics; general mechanics; deformable solid mechanics; and strength, destruction and safety of structures. These proceedings focus on smart technologies and software systems that provide effective solutions to real-world problems in applied mechanics at various multi-scale levels. Highlighting the training of specialists for the aviation and space industry, it is a valuable resource for experts in the field of applied mathematics and mechanics, mathematical modeling and information technologies, as well as developers of smart applied software systems.

Urban Climates T. R. Oke 2017-09-14 Urban Climates is the first full synthesis of modern scientific and applied research on urban climates. The book begins with an outline of what constitutes an urban ecosystem. It develops a comprehensive terminology for the subject using scale and surface classification as key constructs. It explains the physical principles governing the creation of distinct urban climates, such as airflow around buildings, the heat island, precipitation modification and air pollution, and it then illustrates how this knowledge can be applied to moderate the undesirable consequences of urban development and help create more sustainable and resilient cities. With urban climate science now a fully-fledged field, this timely book fulfills the need to bring together the disparate parts of climate research on cities into a coherent framework. It is an ideal resource for students and researchers in fields such as climatology, urban hydrology, air quality, environmental engineering and urban design.

Complex Battlespaces Christopher M. Ford 2018-12-21 "This workshop, Complex Battlespaces: The Law of Armed Conflict and the Dynamics of Modern Warfare, was held at West Point on October 24-26, 2016. It marked the official opening of the Lieber Institute." -- ECIP forward.

Midnight in Chernobyl Adam Higginbotham 2020-02-04 A New York Times Best Book of the Year A Time Best Book of the Year A Kirkus Reviews Best Nonfiction Book of the Year 2020 Andrew Carnegie Medals for Excellence Winner From journalist Adam Higginbotham, the New York Times bestselling "account that reads almost like the script for a movie" (The Wall Street Journal)—a powerful investigation into Chernobyl and how propaganda, secrecy, and myth have obscured the true story of one of the history's worst nuclear disasters. Early in the morning of April 26, 1986, Reactor Number Four of the Chernobyl Atomic Energy Station exploded, triggering one of the twentieth century's greatest disasters. In the thirty years since then, Chernobyl has become lodged in the collective nightmares of the world: shorthand for the spectral horrors of radiation poisoning, for a dangerous technology slipping its leash, for ecological fragility, and for what can happen when a dishonest and careless state endangers its citizens and the entire world. But the real story of the accident, clouded from the beginning by secrecy, propaganda, and misinformation, has long remained in dispute. Drawing on hundreds of hours of interviews conducted over the course of more than ten years, as well as letters, unpublished memoirs, and documents from recently-declassified archives, Adam Higginbotham brings the disaster to life through the eyes of the men and women who witnessed it firsthand. The result is a "riveting, deeply reported reconstruction" (Los Angeles Times) and a definitive account of an event that changed history: a story that is more complex, more human, and more terrifying than the Soviet myth. "The most complete and compelling history yet" (The Christian Science Monitor), Higginbotham's "superb, enthralling, and necessarily terrifying...extraordinary" (The New York Times) book is an indelible portrait of the lessons learned when mankind seeks to bend the natural world to his will—lessons which, in the face of climate change and other threats, remain not just vital but necessary.