

## Material Science And Engineering Programs

Peterson's Graduate Programs in Management of Engineering & Technology, Materials Sciences & Engineering, and Mechanical Engineering & Mechanics contains a wealth of information on colleges and universities that offer graduate work these exciting fields. The institutions listed include those in the United States and Canada, as well as international institutions that are accredited by U.S. accrediting bodies. Up-to-date information, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. Readers will find helpful links to in-depth descriptions that offer additional detailed information about a specific program or department, faculty members and their research, and much more. In addition, there are valuable articles on financial assistance, the graduate admissions process, advice for international and minority students, and facts about accreditation, with a current list of accrediting agencies.

Electron and Positron Spectroscopies in Materials Science and Engineering presents the advances and limitations of instrumentations for surface and interface probing useful to metallurgical applications. It discusses the Auger electron spectroscopy and electron spectroscopy for chemical analysis. It addresses the means to determine the chemistry of the surface. Some of the topics covered in the book are the exo-electron emission; positron annihilation; extended x-ray absorption fine structure; high resolution electron microscopy; uniaxial monotonic deformation-induced dislocation substructure; and analytical electron microscopy. The mechanistic basis for exo-electron spectroscopy is covered. The correlation of fatigue and photoyield are discussed. The text describes the tribostimulated emission. A study of the quantitative measurement of fatigue damage is presented. A chapter is devoted to the fracture of oxide films on aluminium. Another section focuses on the positron annihilation experimental details and the creep-induced dislocation substructure. The book can provide useful information to scientists, engineers, students, and researchers.

The CRC Materials Science and Engineering Handbook, Third Edition is the most comprehensive source available for data on engineering materials. Organized in an easy-to-follow format based on materials properties, this definitive reference features data verified through major professional societies in the materials field, such as ASM International a

Emerging Materials for Energy Conversion and Storage presents the state-of-art of emerging materials for energy conversion technologies (solar cells and fuel cells) and energy storage technologies (batteries, supercapacitors and hydrogen storage). The book is organized into five primary sections, each with three chapters authored by worldwide experts in the fields of materials science, physics, chemistry and engineering. It covers the fundamentals, functionalities, challenges and prospects of different classes of emerging materials, such as wide bandgap semiconductors, oxides, carbon-based nanostructures, advanced ceramics, chalcogenide nanostructures, and flexible organic electronics nanomaterials. The book is an important reference for students and

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researchers (from academics, but also industry) interested in understanding the properties of emerging materials. Explores the fundamentals, challenges and prospects for the application of emerging materials in the development of energy conversion and storage devices Presents a discussion of solar cell and photovoltaic, fuel cell, battery electrode, supercapacitor and hydrogen storage applications Includes notable examples of energy devices based on emerging materials to illustrate recent advances in this field

The Science and Engineering of Materials Sixth Edition describes the foundations and applications of materials science as predicated upon the structure-processing-properties paradigm with the goal of providing enough science so that the reader may understand basic materials phenomena, and enough engineering to prepare a wide range of students for competent professional practice. By selecting the appropriate topics from the wealth of material provided in The Science and Engineering of Materials, instructors can emphasize materials, provide a general overview, concentrate on mechanical behavior, or focus on physical properties. Since the book has more material than is needed for a one-semester course, students will also have a useful reference for subsequent courses in manufacturing, materials, design, or materials selection. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advances in materials science and engineering play a crucial role in supporting the U.S. economy and national security. To maintain its leading edge in the field, the United States relies on a rich and diverse innovation ecosystem encompassing industry, academic institutions, and government laboratories. While this ecosystem has generated numerous gains for defense agencies, the technology sector, consumers, and the country as a whole over many decades, recent years have brought new challenges and a shifting global dynamic in the field. The United States, long a global magnet for science, technology, engineering, and mathematics education and expertise, has seen its competitive edge slip as other countries in Europe and Asia have increased their investments in cultivating science and engineering talent and innovation. In 2020, the emergence of the COVID-19 pandemic caused far-reaching disruptions for both education and supply chains across the world, compounding many of the dynamics that were already affecting materials science and engineering in the United States. To explore these issues, the Workshop on Materials Science and Engineering in a Post-Pandemic World was organized as part of a workshop series on Defense Materials Manufacturing and Its Infrastructure. Hosted by the National Academies of Sciences, Engineering, and Medicine, the virtual event brought together approximately 30 speakers and attendees representing materials science, engineering, and manufacturing experts from industry, academia, and government agencies. The 3-day workshop explored education and workforce trends across the nation and the globe, with particular focus on the U.S. Department of Defense and university-government collaborations. Participants discussed how the COVID-19 pandemic has affected science and engineering education, opportunities to reimagine traditional education for the field, and the imperative to develop a more diverse workforce. Several speakers presented their views on what the post-pandemic future may hold, and many offered perspectives on key concerns and priorities for the field moving forward. This publication summarizes the presentations and discussion of the workshop.

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The latest research innovations and enhanced technologies have altered the discipline of materials science and engineering. As a direct result of these developments, new trends in Materials Science and Engineering (MSE) pedagogy have emerged that require attention. The Handbook of Research on Recent Developments in Materials Science and Corrosion Engineering Education brings together innovative and current advances in the curriculum design and course content of MSE education programs. Focusing on the application of instructional strategies, pedagogical frameworks, and career preparation techniques, this book is an essential reference source for academicians, engineering practitioners, researchers, and industry professionals interested in emerging and future trends in MSE training and education.

Advanced materials are essential for economic security and human well-being, with applications in industries aimed at addressing challenges in clean energy, national security, and human welfare. Yet, it can take years to move a material to the market after its initial discovery.

Computational techniques have accelerated the exploration and development of materials, offering the chance to move new materials to the market quickly. Computational Technologies in Materials Science addresses topics related to AI, machine learning, deep learning, and cloud computing in materials science. It explores characterization and fabrication of materials, machine-learning-based models, and computational intelligence for the synthesis and identification of materials. This book • Covers material testing and development using computational intelligence • Highlights the technologies to integrate computational intelligence and materials science • Details case studies and detailed applications • Investigates challenges in developing and using computational intelligence in materials science • Analyzes historic changes that are taking place in designing materials. This book encourages material researchers and academics to develop novel theories and sustainable computational techniques and explores the potential for computational intelligence to replace traditional materials research.

Based primarily on a conference, this book examines the need for interventions to increase the number of U.S. students, both males and females, pursuing careers in the sciences and engineering and describes interventions supported by the private and public sectors at the undergraduate and graduate levels of education. The individually authored chapters also describe actions taken by employers of scientists and engineers to retain their technical work force.

Materials science and engineering (MSE) contributes to our everyday lives by making possible technologies ranging from the automobiles we drive to the lasers our physicians use. Materials Science and Engineering for the 1990s charts the impact of MSE on the private and public sectors and identifies the research that must be conducted to help America remain competitive in the world arena. The authors discuss what current and future resources would be needed to conduct this research, as well as the role that industry, the federal government, and universities should play in this endeavor.

Peterson's Graduate Programs in Engineering & Applied Sciences contains a wealth of information on colleges and universities that offer graduate degrees in the fields of Aerospace/Aeronautical Engineering; Agricultural Engineering & Bioengineering; Architectural Engineering, Biomedical Engineering & Biotechnology; Chemical Engineering; Civil & Environmental Engineering; Computer Science & Information Technology; Electrical & Computer Engineering; Energy & Power engineering; Engineering Design; Engineering Physics; Geological, Mineral/Mining, and Petroleum Engineering; Industrial Engineering; Management of Engineering & Technology; Materials Sciences & Engineering; Mechanical Engineering & Mechanics; Ocean Engineering; Paper & Textile Engineering; and Telecommunications. Up-to-date data, collected through Peterson's Annual Survey of Graduate and Professional Institutions, provides valuable information on degree

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offerings, professional accreditation, jointly offered degrees, part-time and evening/weekend programs, postbaccalaureate distance degrees, faculty, students, degree requirements, entrance requirements, expenses, financial support, faculty research, and unit head and application contact information. As an added bonus, readers will find a helpful "See Close-Up" link to in-depth program descriptions written by some of these institutions. These Close-Ups offer detailed information about the specific program or department, faculty members and their research, and links to the program Web site. In addition, there are valuable articles on financial assistance and support at the graduate level and the graduate admissions process, with special advice for international and minority students. Another article discusses important facts about accreditation and provides a current list of accrediting agencies.

This introduction for engineers examines not only the physical properties of materials, but also their history, uses, development, and some of the implications of resource depletion and materials substitutions.

June 12-14, 2017 Rome, Italy Key Topics : Materials Science and Engineering, Nanomaterials and Nanotechnology, Biomaterials and Medical Devices, Polymer Science and Technology, Electronic, Optical and Magnetic Materials, Emerging Smart Materials, Materials for Energy and Environmental Sustainability, Metals, Metallurgy and Materials, Physics and Chemistry of Materials, Mechanics, Characterization Techniques and Equipments, Ceramics and Composite Materials, Entrepreneurs Investment Meet,

Discover why materials behave as the way they do with ESSENTIALS OF MATERIALS SCIENCE AND ENGINEERING, 4TH Edition.

Materials engineering explains how to process materials to suit specific engineering designs. Rather than simply memorizing facts or lumping materials into broad categories, you gain an understanding of the whys and hows behind materials science and engineering. This knowledge of materials science provides an important framework for comprehending the principles used to engineer materials. Detailed solutions and meaningful examples assist in learning principles while numerous end-of-chapter problems offer significant practice. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

¿ For students taking the Materials Science course . This book is also suitable for professionals seeking a guided inquiry approach to materials science. ¿ This unique book is designed to serve as an active learning tool that uses carefully selected information and guided inquiry questions. Guided inquiry helps readers reach true understanding of concepts as they develop greater ownership over the material presented. First, background information or data is presented. Then, concept invention questions lead the students to construct their own understanding of the fundamental concepts represented. Finally, application questions provide the reader with practice in solving problems using the concepts that they have derived from their own valid conclusions.¿ ¿

0133354733 / 9780133354737 Introduction to Materials Science and Engineering: A Guided Inquiry with Mastering Engineering with Pearson eText -- Access Card Package Package consists of:¿ ¿ ¿ 0132136422 / 9780132136426 Introduction to Materials Science and Engineering: A Guided Inquiry 0133411443 / 9780133411447 MasteringEngineering with Pearson eText -- Access Card -- Introduction to Materials Science ¿

Ceramic Materials: Science and Engineering is an up-to-date treatment of ceramic science, engineering, and applications in a single, comprehensive text. Building on a foundation of crystal structures, phase equilibria, defects, and the mechanical properties of ceramic materials, students are shown how these materials are processed for a wide diversity of applications in today's society.

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Concepts such as how and why ions move, how ceramics interact with light and magnetic fields, and how they respond to temperature changes are discussed in the context of their applications. References to the art and history of ceramics are included throughout the text, and a chapter is devoted to ceramics as gemstones. This course-tested text now includes expanded chapters on the role of ceramics in industry and their impact on the environment as well as a chapter devoted to applications of ceramic materials in clean energy technologies. Also new are expanded sets of text-specific homework problems and other resources for instructors. The revised and updated Second Edition is further enhanced with color illustrations throughout the text.

Computational Materials Engineering is an advanced introduction to the computer-aided modeling of essential material properties and behavior, including the physical, thermal and chemical parameters, as well as the mathematical tools used to perform simulations. Its emphasis will be on crystalline materials, which includes all metals. The basis of Computational Materials Engineering allows scientists and engineers to create virtual simulations of material behavior and properties, to better understand how a particular material works and performs and then use that knowledge to design improvements for particular material applications. The text displays knowledge of software designers, materials scientists and engineers, and those involved in materials applications like mechanical engineers, civil engineers, electrical engineers, and chemical engineers. Readers from students to practicing engineers to materials research scientists will find in this book a single source of the major elements that make up contemporary computer modeling of materials characteristics and behavior. The reader will gain an understanding of the underlying statistical and analytical tools that are the basis for modeling complex material interactions, including an understanding of computational thermodynamics and molecular kinetics; as well as various modeling systems. Finally, the book will offer the reader a variety of algorithms to use in solving typical modeling problems so that the theory presented herein can be put to real-world use. Balanced coverage of fundamentals of materials modeling, as well as more advanced aspects of modeling, such as modeling at all scales from the atomic to the molecular to the macro-material Concise, yet rigorous mathematical coverage of such analytical tools as the Potts type Monte Carlo method, cellular automata, phase field, dislocation dynamics and Finite Element Analysis in statistical and analytical modeling

Acknowledgement The editor and the publisher of the Book of abstracts are grateful to the Ministry of Education, Sciences and Technological Development of the Republic of Serbia for its financial support of this book and The Fourteenth Young Researchers' Conference - Materials Sciences and Engineering, held in Belgrade, Serbia.

The Materials Research Science and Engineering Centers (MRSEC) Impact Assessment Committee was convened by the National Research Council in response to an informal request from the National Science Foundation. Charged to examine the impact of the MRSEC program and to provide guidance for the future, the committee included experts from across materials research as well as several from outside the field. The committee developed a general methodology to examine the MRSEC centers and after extensive research and analysis, came to the following conclusions. MRSEC center awards continue to be in great demand. The intense competition within the community for them indicates a strong perceived value. Using more quantitative

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measures, the committee examined the performance and impact of MRSEC activities over the past decade in the areas of research, facilities, education and outreach, and industrial collaboration and technology transfer. The MRSEC program has had important impacts of the same high standard of quality as those of other multi-investigator or individual-investigator programs. Although the committee was largely unable to attribute observed impacts uniquely to the MRSEC program, MRSECs generally mobilize efforts that would not have occurred otherwise. Because of an observed decline in the effectiveness of the centers, the committee recommended a restructuring the MRSEC program to allow more efficient use and leveraging of resources. The new program should fully invest in centers of excellence as well as in stand-alone teams of researchers to allow tighter focus on key strengths of the program. In its report, the committee outlines one potential vision for how this might be accomplished in a revenue-neutral fashion.

A MATLAB® Primer for Technical Programming for Materials Science and Engineering draws on examples from the field, providing the latest information on this programming tool that is targeted towards materials science. The book enables non-programmers to master MATLAB® in order to solve problems in materials science, assuming only a modest mathematical background. In addition, the book introduces programming and technical concepts in a logical manner to help students use MATLAB® for subsequent projects. This title offers materials scientists who are non-programming specialists with a coherent and focused introduction to MATLAB®. Provides the necessary background, alongside examples drawn from the field, to allow materials scientists to effectively master MATLAB® Guides the reader through programming and technical concepts in a logical and coherent manner Promotes a thorough working familiarity with MATLAB® for materials scientists Gives the information needed to write efficient and compact programs to solve problems in materials science, tribology, mechanics of materials and other material-related disciplines

Materials Science and Engineering theme is a component of Encyclopedia of Physical Sciences, Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. Materials Science and Engineering is concerned with the development and selection of the best possible material for a particular engineering task and the determination of the most effective method of producing the materials and the component. The Theme with contributions from distinguished experts in the field, discusses Materials Science and Engineering. In this theme the history of materials is traced and the concept of structure (atomic structure, microstructure and defect structure) and its relationship to properties developed. The theme is structured in five main topics: Materials Science and Engineering; Optimization of Materials Properties; Structural and Functional Materials; Materials Processing and Manufacturing Technologies; Detection of Defects and Assessment of Serviceability; Materials of the Future, which are then expanded into multiple subtopics, each as a chapter. These three volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs

This text provides students with a solid understanding of the relationship between the structure, processing, and properties of

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materials. Authors Askeland and Wright present the fundamental concepts of atomic structure and the behavior of materials and clearly link them to the materials issues that students will have to deal with when they enter the industry or graduate school (e.g. design of structures, selection of materials, or materials failures). Fundamental concepts are linked to practical applications, emphasizing the necessary basics without overwhelming the students with too much of the underlying chemistry or physics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Materials Science and Engineering: An Introduction promotes student understanding of the three primary types of materials (metals, ceramics, and polymers) and composites, as well as the relationships that exist between the structural elements of materials and their properties.

This book offers a strong introduction to fundamental concepts on the basis of materials science. It conveys the central issue of materials science, distinguishing it from merely solid state physics and solid state chemistry, namely to develop models that provide the relation between the microstructure and the properties. The book is meant to be used in the beginning of a materials science and engineering study as well as throughout an entire undergraduate and even graduate study as a solid background against which specialized texts can be studied. Topics dealt with are "crystallography", "lattice defects", "microstructural analysis", "phase equilibria and transformations" and "mechanical strength". After the basic chapters the coverage of topics occurs to an extent surpassing what can be offered in a freshman's course. About the author Prof. Mittemeijer is one of the top scientists in materials science, whose perceptiveness and insight have led to important achievements. This book witnesses of his knowledge and panoramic overview and profound understanding of the field. He is a director of the Max Planck Institute for Metals Research in Stuttgart.

Computing application to materials science is one of the fastest-growing research areas. This book introduces the concepts and methodologies related to the modeling of the complex phenomena occurring in materials processing. It is intended for undergraduate and graduate students in materials science and engineering, mechanical engineering and physics, and for engineering professionals or researchers.

The design and study of materials is a pivotal component to new discoveries in the various fields of science and technology. By better understanding the components and structures of materials, researchers can increase its applications across different industries. Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on investigations, technologies, and techniques pertaining to analyzing the synthesis and design of new materials. Through its broad and extensive coverage on a variety of crucial topics, such as nanomaterials, biomaterials, and relevant computational methods, this multi-volume work is an essential reference source for engineers, academics, researchers, students, professionals, and practitioners seeking innovative perspectives in the field of materials science and engineering.

"A pedagogical gem.... Professor Readey replaces 'black-box' explanations with detailed, insightful derivations. A wealth of

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practical application examples and exercise problems complement the exhaustive coverage of kinetics for all material classes."

–Prof. Rainer Hebert, University of Connecticut "Prof. Readey gives a grand tour of the kinetics of materials suitable for experimentalists and modellers.... In an easy-to-read and entertaining style, this book leads the reader to fundamental, model-based understanding of kinetic processes critical to development, fabrication and application of commercially-important soft (polymers, biomaterials), hard (ceramics, metals) and composite materials. It is a must-have for anyone who really wants to understand how to make materials and how they will behave in service." --Prof. Bill Lee, Imperial College London, Fellow of the Royal Academy of Engineering "A much needed text filling the gap between an introductory course in materials science and advanced materials-specific kinetics courses. Ideal for the undergraduate interested in an in-depth study of kinetics in materials." –Prof. Mark E. Eberhart, Colorado School of Mines This book provides an in-depth introduction to the most important kinetic concepts in materials science, engineering, and processing. All types of materials are addressed, including metals, ceramics, polymers, electronic materials, biomaterials, and composites. The expert author with decades of teaching and practical experience gives a lively and accessible overview, explaining the principles that determine how long it takes to change material properties and make new and better materials. The chapters cover a broad range of topics extending from the heat treatment of steels, the processing of silicon integrated microchips, and the production of cement, to the movement of drugs through the human body. The author explicitly avoids "black box" equations, providing derivations with clear explanations.

Modern materials science builds on knowledge from physics, chemistry, biology, mathematics, computer and data science, and engineering sciences to enable us to understand, control, and expand the material world. Although it is anchored in inquiry-based fundamental science, materials research is strongly focused on discovering and producing reliable and economically viable materials, from super alloys to polymer composites, that are used in a vast array of products essential to today's societies and economies. *Frontiers of Materials Research: A Decadal Survey* is aimed at documenting the status and promising future directions of materials research in the United States in the context of similar efforts worldwide. This third decadal survey in materials research reviews the progress and achievements in materials research and changes in the materials research landscape over the last decade; research opportunities for investment for the period 2020-2030; impacts that materials research has had and is expected to have on emerging technologies, national needs, and science; and challenges the enterprise may face over the next decade.

This book presents recent advances made in materials science and engineering within Russian academia, particularly groups working in the Ural Federal University District. Topics explored in this volume include structure formation analysis of complicated alloys, non-ferrous metals metallurgy, composite composed materials science, and high-pressure treatment of metals and alloys. The finding discussed in this volume are to critical to multiple industries including manufacturing, structural materials, oil and gas, coatings, and metal fabrication.

This textbook supports the Impact of Materials on Society course and teaching materials, developed with the Materials Research

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Society. The textbook, which is freely available online (<https://ufl.pb.unizin.org/imos/>) and for purchase in print-on-demand format, offers an exploration into materials and the relationship with technologies and social structures. The textbook was developed by an interdisciplinary team from Engineering and Liberal Arts and Sciences, including anthropologists, sociologists, historians, media studies experts, Classicists, and more. Chapters include coverage of clay, ceramics, concrete, copper and bronze, gold and silver, steel, aluminum, polymers, and writing materials. Supplemental materials, including lecture slides, assignments, and exams, may be accessed in a companion volume: <https://ufl.pb.unizin.org/imosinstructorguide>

Materials are the foundation and fabric of manufactured products. In fact, many leading commercial products and military systems could not exist without advanced materials and many of the new products critical to the nation's continued prosperity will come only through the development and commercialization of new materials. Thus, the field of materials science and engineering (MS&E) affects quality of life, industrial competitiveness, and the global environment. The United States leads the world in materials research and development, but does not have as impressive a record in the commercialization of new materials. This book explores the relationships among the producers and users of materials and examines the processes of innovation--from the generation of knowledge to the ultimate integration of a material into a useful product. The authors recommend ways to accelerate the rate at which new ideas are integrated into finished products. Real-life case studies provide an accurate depiction of the processes that take materials and process innovations from the laboratory, to the factory floor, and ultimately to the consumer, drawing on experiences with three distinctive MS&E applications--advanced aircraft turbines, automobiles, and computer chips and information-storage devices.

Colleges Worth Your Money: A Guide to What America's Top Schools Can Do for You is an invaluable guide for students making the crucial decision of where to attend college when our thinking about higher education is radically changing. At a time when costs are soaring and competition for admission is higher than ever, the college-bound need to know how prospective schools will benefit them both as students and after graduation. Colleges Worth Your Money provides the most up-to-date, accurate, and comprehensive information for gauging the ROI of America's top schools, including: In-depth profiles of 175 of the top colleges and universities across the U.S.; Over 75 key statistics about each school that cover unique admissions-related data points such as gender-specific acceptance rates, early decision acceptance rates, and five-year admissions trends at each college. The solid facts on career outcomes, including the school's connections with recruiters, the rate of employment post-graduation, where students land internships, the companies most likely to hire students from a particular school, and much more. Data and commentary on each college's merit and need-based aid awards, average student debt, and starting salary outcomes. Top Colleges for America's Top Majors lists highlighting schools that have the best programs in 40+ disciplines. Lists of the "Top Feeder" undergraduate colleges into medical school, law school, tech, journalism, Wall Street, engineering, and more.

At a time when more and more of what people learn both in formal courses and in everyday life is mediated by technology, Learning Online provides a much-needed guide to different forms and applications of online learning. This book describes how

online learning is being used in both K-12 and higher education settings as well as in learning outside of school. Particular online learning technologies, such as MOOCs (massive open online courses), multi-player games, learning analytics, and adaptive online practice environments, are described in terms of design principles, implementation, and contexts of use. Learning Online synthesizes research findings on the effectiveness of different types of online learning, but a major message of the book is that student outcomes arise from the joint influence of implementation, context, and learner characteristics interacting with technology--not from technology alone. The book describes available research about how best to implement different forms of online learning for specific kinds of students, subject areas, and contexts. Building on available evidence regarding practices that make online and blended learning more effective in different contexts, Learning Online draws implications for institutional and state policies that would promote judicious uses of online learning and effective implementation models. This in-depth research work concludes with a call for an online learning implementation research agenda, combining education institutions and research partners in a collaborative effort to generate and share evidence on effective practices.

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