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Physics (Group 1) TVS Arun Murthy | MN Avadhanulu | JJ Chaudhary S. Chand's Physics, designed to serve as a textbook for students pursuing their engineering degree course, B.E. in Gujarat Technical University. The book is written with the singular objective of providing the students of GTU with a distinct source material as per the syllabus. The philosophy of presentation of the material in the book is based upon decades of classroom interaction of the authors. In each chapter, the fundamental concepts pertinent to the topic are highlighted and the in-between continuity is emphasized. Throughout the book attention is given to the proper presentation of concepts and practical applications are cited to highlight the engineering aspects. A number of problems are solved. New problems are included in order to expedite the learning process of students of all hues and to improve their academic performance. The fundamental concepts are emphasized in each chapter and the details are developed in an easy-to-follow style. Each chapter is divided into smaller parts and sub-headings are provided to make the reading a pleasant journey from one interesting topic to another important topic.

Introduction To Design And Analysis Of Algorithms, 2/E Anany Levitin 2008-09

Wine Tasting Ronald S. Jackson 2016-12-22 From OIV-award-winning author, Ronald S. Jackson, Wine Tasting: A Professional Handbook, Third Edition, is an essential guide for any professional or serious connoisseur seeking to understand both the theory and practice of wine tasting. From techniques for assessing wine properties and quality, including physiological, psychological, and physicochemical sensory evaluation, to the latest information on the types of wine, the author guides the reader to a clear and applicable understanding of the wine tasting process. With its inclusion of illustrative data and testing technique descriptions, the book is ideal for both those who train tasters, those involved in designing wine tastings, and the connoisseur seeking to maximize their perception and appreciation of wine. Contains revised and updated coverage, notably on the physiology and neurology of taste and odor perception Includes expanded coverage of the statistical aspect of wine tasting (specific examples to show the process), qualitative wine tasting, wine language, the origins of wine quality, and food and wine combination Provides a flow chart of wine tasting steps and production procedures Presents practical details on wine storage and the problems that can occur both during and following bottle opening

Teachers in Anglophone Africa Aidan G Mulkeen 2009-12-02 Teachers are at the heart of good education, and good teacher policies are essential to ensure adequate supply, deployment and management of teachers. Enrollment in primary education has grown rapidly in Sub-Saharan Africa. Yet teacher policy in the region has oft en evolved without clear planning; in the absence of an overall

strategy, countries have experienced serious problems with teacher supply and deployment, as well as with the quality of teaching. Based on case studies of education systems and practices in eight English-speaking African countries, 'Teachers in Anglophone Africa: Issues in Teacher Supply, Training, and Management' closely examines issues of teacher supply, deployment, management and finance. The book suggests that these issues are closely interrelated. Low numbers of qualified teaching graduates may result in teacher shortages; these shortages may make it difficult to deploy teachers effectively. Problems with teacher deployment may result in inefficient utilization of the teachers available, and those teachers' effectiveness may be further reduced by weak teacher management and support systems. The book identifies policies and practices that are working on the ground, noting their potential pitfalls and pointing out that policies designed to address one problem may make another problem worse. 'Teachers in Anglophone Africa: Issues in Teacher Supply, Training, and Management' offers a useful synthesis of the issues and draws together a series of promising practices, which can serve as positive suggestions for countries seeking to improve their teacher policies. The book should be of great assistance to education ministries and their development partners throughout the region as they address the challenges of the next phases of expansion in education.

Proceedings of International Conference on Advances in Tribology and Engineering Systems Himanshu C. Patel 2013-10-17 This book contains advanced-level research material in the area of lubrication theory and related aspects, presented by eminent researchers during the International Conference on Advances in Tribology and Engineering Systems (ICATES 2013) held at Gujarat Technological University, Ahmedabad, India during October 15–17, 2013. The material in this book represents the advanced field of tribology and reflects the work of many eminent researchers from both India and abroad. The treatment of the presentations is the result of the contributions of several professionals working in the industry and academia. This book will be useful for students, researchers, academicians, and professionals working in the area of tribology, in general, and bearing performance characteristics, in particular, especially from the point-of-view of design. This book will also appeal to researchers and professionals working in fluid-film lubrication and other practical applications of tribology. A wide range of topics has been included despite space and time constraints. Basic concepts and fundamentals techniques have been emphasized upon, while also including highly specialized topics and methods (such as nanotribology, bio-nanotribology). Care has been taken to generate interest for a wide range of readers, considering the interdisciplinary nature of the subject.

Building Materials in Civil Engineering Haimei Zhang 2011-05-09 The construction of buildings and structures relies on having a thorough understanding of building materials. Without this knowledge it would not be possible to build safe, efficient and long-lasting buildings, structures and dwellings. Building materials in civil engineering provides an overview of the complete range of building materials available to civil engineers and all those involved in the building and construction industries. The book begins with an introductory chapter describing the basic properties of building materials. Further chapters cover the basic properties of building materials, air hardening cement materials, cement, concrete, building mortar, wall and roof materials, construction steel, wood, waterproof materials, building plastics, heat-insulating materials and sound-absorbing materials and finishing materials. Each chapter includes a series of questions, allowing readers to test the knowledge they have gained. A detailed appendix gives information on the testing of building materials. With its distinguished editor and eminent editorial committee, Building materials in civil engineering is a standard introductory reference book on the complete range of building materials. It is aimed at students of civil engineering, construction engineering and allied courses including water supply and drainage engineering. It also serves as a source of essential background information for engineers and professionals in the civil engineering and construction sector. Provides an overview of the complete range of building materials

available to civil engineers and all those involved in the building and construction industries Explores the basic properties of building materials featuring air hardening cement materials, wall and roof materials and sound-absorbing materials Each chapter includes a series of questions, allowing readers to test the knowledge they have gained

Operating System Concepts, 10e Abridged Print Companion Abraham Silberschatz 2018-01-11 The tenth edition of Operating System Concepts has been revised to keep it fresh and up-to-date with contemporary examples of how operating systems function, as well as enhanced interactive elements to improve learning and the student's experience with the material. It combines instruction on concepts with real-world applications so that students can understand the practical usage of the content. End-of-chapter problems, exercises, review questions, and programming exercises help to further reinforce important concepts. New interactive self-assessment problems are provided throughout the text to help students monitor their level of understanding and progress. A Linux virtual machine (including C and Java source code and development tools) allows students to complete programming exercises that help them engage further with the material. The Print Companion includes all of the content found in a traditional text book, organized the way you would expect it, but without the problems.

Twelve Years a Slave Solomon Northup 2021-01-01 "Having been born a freeman, and for more than thirty years enjoyed the blessings of liberty in a free State—and having at the end of that time been kidnapped and sold into Slavery, where I remained, until happily rescued in the month of January, 1853, after a bondage of twelve years—it has been suggested that an account of my life and fortunes would not be uninteresting to the public." -an excerpt

Principles of Electronics Colin David Simpson 1996 One of the most comprehensive, clearly written books on electronic technology, Simpon's invaluable guide offers a concise and practical overview of the basic principles, theorems, circuit behavior and problem-solving procedures of this intriguing and fast-paced science. Examines a broad spectrum of topics, such as atomic structure, Kirchhoff's laws, energy, power, introductory circuit analysis techniques, Thevenin's theorem, the maximum power transfer theorem, electric circuit analysis, magnetism, resonance semiconductor diodes, electron current flow, and much more. Smoothly integrates the flow of material in a nonmathematical format without sacrificing depth of coverage or accuracy to help readers grasp more complex concepts and gain a more thorough understanding of the principles of electronics. Includes many practical applications, problems and examples emphasizing troubleshooting, design, and safety to provide a solid foundation in the field of electronics. An ideal reference source for electronic engineering technicians and those involved in the electronic technology field.

Modern Mathematics Education for Engineering Curricula in Europe Seppo Pohjolainen 2018-07-16 This book is open access under a CC BY License. It provides a comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers. The collective work of experts from a dozen universities critically examines various aspects of higher mathematical education. The two EU Tempus-IV projects – MetaMath and MathGeAr – investigate the current methodologies of mathematics education for technical and engineering disciplines. The projects aim to improve the existing mathematics curricula in Russian, Georgian and Armenian universities by introducing modern technology-enhanced learning (TEL) methods and tools, as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm. MetaMath and MathGeAr have brought together mathematics educators, TEL specialists and experts in education quality assurance form 21 organizations across six countries. The results of a

comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU, Russia, Georgia and Armenia has been conducted, have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countriesThe book presents the methodology, procedure and results of this analysis. This book is a valuable resource for teachers, especially those teaching mathematics, and curriculum planners for engineers, as well as for a general audience interested in scientific and technical higher education.

University Research for Innovation Luc Weber 2010 Drawn from the 7th Glion Colloquium held in 2009, this volume considers the role of research universities in an innovation-driven global society. Whether in the "old world" of Europe and North America or in rapidly developing nations, the message is clear: innovation has become the key to prosperity and social well-being in a hypercompetitive global economy. Part I introduces several forms of economic, technological, and social innovation. Part II discusses agents of innovation from the points of view of a research university, industry, and national innovation policies. Part III presents university leaders from long-established and emerging institutions to compare how regional and institutional characteristics shape innovation strategies. Part IV focuses on approaches to innovation at national and institutional levels, including a U.S. approach to energy challenges, the shift of high-tech industry toward open innovation, and the challenges of creating world-class universities. Part V addresses the intellectual character of innovation and its relationship to the university's mission. Today's economy requires not only leadership in innovation but also educated citizens capable of applying technology, talent, and capital in new ways. Institutions of higher learning must collaborate with industry and government to create a climate and culture that enable innovation to thrive.

Principles of Plant Genetics and Breeding George Acquaah 2020-09-28 The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others. A new table enables efficient comparison of an expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated “Industry Highlights” sections provide examples of the practical application of plant breeding methods to real-world problems. This new edition: Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field, such as CRSPR genome edition and grafting on GM stock Includes numerous illustrations and end-of-chapter self-assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding, biotechnology, and genetics.

Implementing SAP R/3 Vivek Kale 2000-01-01 Implementing SAP R/3: The Guide for Business and Technology Managers provides a framework and a complete plan that enables business and technical managers to take the optimal decisions that are necessary for the successful implementation of SAP in their organizations. It presents the details needed to plan and present confidently a case for choosing SAP, without ever asking the software vendor or involving the vendor's personnel.

Report on experiment 1912

Semiconductor Nanotechnology Stephen M. Goodnick 2018-07-26 This book presents research dedicated to solving scientific and technological problems in many areas of electronics, photonics and renewable energy. Energy and information are interconnected and are essential elements for the development of human society. Transmission, processing and storage of information requires energy consumption, while the efficient use and access to new energy sources requires new information (ideas and expertise) and the design of novel systems such as photovoltaic devices, fuel cells and batteries. Semiconductor physics creates the knowledge base for the development of information (computers, cell phones, etc.) and energy (photovoltaic) technologies. The exchange of ideas and expertise between these two technologies is critical and expands beyond semiconductors. Continued progress in information and renewable energy technologies requires miniaturization of devices and reduction of costs, energy and material consumption. The latest generation of electronic devices is now approaching nanometer scale dimensions, new materials are being introduced into electronics manufacturing at an unprecedented rate, and alternative technologies to mainstream CMOS are evolving. Nanotechnology is widely accepted as a source of potential solutions in securing future progress for information and energy technologies. Semiconductor Nanotechnology features chapters that cover the following areas: atomic scale materials design, bio- and molecular electronics, high frequency electronics, fabrication of nanodevices, magnetic materials and spintronics, materials and processes for integrated and subwave optoelectronics, nanoCMOS, new materials for FETs and other devices, nanoelectronics system architecture, nano optics and lasers, non-silicon materials and devices, chemical and biosensors, quantum effects in devices, nano science and technology applications in the development of novel solar energy devices, and fuel cells and batteries.

Environmental Science Y. K. Singh 2006-12 Environmental Science is one of the most important areas of research and study in present time and its application in every aspect of life has also increased . Keeping this in view, almost all Indian Universities have introduced it as a compulsory course. This book is intended to suit the needs of graduate and postgraduate students pursuing environmental studies. To save the natural environment, a good and effective understanding of environmental science is needed. Environmental science is a term that has been widely used in recent years and its manifestations can range from environmental awareness learning through complex and expensive environmental study to operational research studies of environmental educations systems.

Delinquent Networks Jerzy Sarnecki 2001-10-25 This book presents a study of co-offering relations among youths under twenty-one suspected of criminal offences in Stockholm during 1991–5. In total, the study includes just over 22,000 individuals suspected of around 29,000 offences. Jerzy Sarnecki employs the methods of network analysis which makes it possible to study the ties, social bonds, interactions, differential associations and connections that are central to many of the sociologically oriented theories on the aetiology of crime. Up to now, network analysis has been used only rarely in the criminological context. The book discusses many aspects of Stockholm's delinquent networks such as the existence of delinquent gangs and a criminal underworld, the durability of delinquent relations, and the choice of co-offenders with respect to sex, age, residential location, ethnic background and

earlier delinquent experience. It also considers the effects of societal intervention on criminal networks. This unique study will appeal to a wide audience.

Agriscience Elmer L. Cooper 1995 An agriscience textbook exploring such topics as environmental technology, plant sciences, integrated pest management, interior and exterior plantscape, animal sciences, food science, and agribusiness.

Human Anatomy And Physiology Dr. S. B. Bhise 2008-12-07

Railway Engineering Satish Chandra 2013-02-02 Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock. Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive. A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals.

How to Solve it by Computer Dromey 2008

Cryptography Douglas Robert Stinson 2018-08-14 Through three editions, Cryptography: Theory and Practice, has been embraced by instructors and students alike. It offers a comprehensive primer for the subject's fundamentals while presenting the most current advances in cryptography. The authors offer comprehensive, in-depth treatment of the methods and protocols that are vital to safeguarding the seemingly infinite and increasing amount of information circulating around the world. Key Features of the Fourth Edition: New chapter on the exciting, emerging new area of post-quantum cryptography (Chapter 9). New high-level, nontechnical overview of the goals and tools of cryptography (Chapter 1). New mathematical appendix that summarizes definitions and main results on number theory and algebra (Appendix A). An expanded treatment of stream ciphers, including common design techniques along with coverage of Trivium. Interesting attacks on cryptosystems, including: padding oracle attack correlation attacks and algebraic attacks on stream ciphers attack on the DUAL-EC random bit generator that makes use of a trapdoor. A treatment of the sponge construction for hash functions and its use in the new SHA-3 hash standard. Methods of key distribution in sensor networks. The basics of visual cryptography, allowing a secure method to split a secret visual message into pieces (shares) that can later be combined to reconstruct the secret. The fundamental techniques cryptocurrencies, as used in Bitcoin and blockchain. The basics of the new methods employed in messaging protocols such as Signal, including deniability and Diffie-Hellman key ratcheting.

Industrial Applications of Power Electronics Eduardo M. G. Rodrigues 2020-12-01 In recent years, power electronics have been intensely contributing to the development and evolution of new structures for the processing of energy. They can be used in a wide range of applications ranging from power systems and electrical machines to electric vehicles and robot arm drives. In conjunction with the evolution of microprocessors and advanced control theories, power electronics are playing an increasingly essential role in our society. Thus, in order to cope with the obstacles lying ahead, this book presents a collection of original studies and modeling methods which were developed and published in the field of electrical energy conditioning and control by using circuits and electronic devices, with an emphasis on power applications and industrial control. Researchers have contributed 19 selected and peer-reviewed papers covering a wide range of topics by addressing a wide variety of

themes, such as motor drives, AC–DC and DC–DC converters, multilevel converters, varistors, and electromagnetic compatibility, among others. The overall result is a book that represents a cohesive collection of inter-/multidisciplinary works regarding the industrial applications of power electronics.

Irrigation and Water Resources Engineering G. L. Asawa 2006 The Book Irrigation And Water Resources Engineering Deals With The Fundamental And General Aspects Of Irrigation And Water Resources Engineering And Includes Recent Developments In Hydraulic Engineering Related To Irrigation And Water Resources Engineering. Significant Inclusions In The Book Are A Chapter On Management (Including Operation, Maintenance, And Evaluation) Of Canal Irrigation In India, Detailed Environmental Aspects For Water Resource Projects, A Note On Interlinking Of Rivers In India, And Design Problems Of Hydraulic Structures Such As Guide Bunds, Settling Basins Etc.The First Chapter Of The Book Introduces Irrigation And Deals With The Need, Development And Environmental Aspects Of Irrigation In India. The Second Chapter On Hydrology Deals With Different Aspects Of Surface Water Resource. Soil-Water Relationships Have Been Dealt With In Chapter 3. Aspects Related To Ground Water Resource Have Been Discussed In Chapter 4. Canal Irrigation And Its Management Aspects Form The Subject Matter Of Chapters 5 And 6. Behaviour Of Alluvial Channels And Design Of Stable Channels Have Been Included In Chapters 7 And 8, Respectively. Concepts Of Surface And Subsurface Flows, As Applicable To Hydraulic Structures, Have Been Introduced In Chapter 9. Different Types Of Canal Structures Have Been Discussed In Chapters 10, 11, And 13. Chapter 12 Has Been Devoted To Rivers And River Training Methods. After Introducing Planning Aspects Of Water Resource Projects In Chapter 14, Embankment Dams, Gravity Dams And Spillways Have Been Dealt With, Respectively, In Chapters 15, 16 And 17.The Students Would Find Solved Examples (Including Design Problems) In The Text, And Unsolved Exercises And The List Of References Given At The End Of Each Chapter Useful.

Pharmaceutical Biology Mr. S. B. Gokhale 2008-10-07

Design of Machine Elements V. B. Bhandari 2010 This edition of Design of Machine Elements has been revised extensively to bring in several new topics and update other contents. Plethora of solved examples and practice problems make this an excellent offering for the students and the teachers. Highligh.

Computer-Aided Drug Design Dev Bukhsh Singh 2020-10-09 This book provides up-to-date information on bioinformatics tools for the discovery and development of new drug molecules. It discusses a range of computational applications, including three-dimensional modeling of protein structures, protein-ligand docking, and molecular dynamics simulation of protein-ligand complexes for identifying desirable drug candidates. It also explores computational approaches for identifying potential drug targets and for pharmacophore modeling. Moreover, it presents structure- and ligand-based drug design tools to optimize known drugs and guide the design of new molecules. The book also describes methods for identifying small-molecule binding pockets in proteins, and summarizes the databases used to explore the essential properties of drugs, drug-like small molecules and their targets. In addition, the book highlights various tools to predict the absorption, distribution, metabolism, excretion (ADME) and toxicity (T) of potential drug candidates. Lastly, it reviews in silico tools that can facilitate vaccine design and discusses their limitations.

Surveying Vol. I B. C. Punmia 2005 This Volume Is One Of The Two Which Offer A Comprehensive Course In Those Parts Of Theory And Practice Of Plane And Geodetic Surveying That Are Most Commonly Used By Civil Engineers. The First Volume Covers In 24 Chapters, The Most Common Surveying Operations. Each Topic Introduced Is Thoroughly Described, The Theory Is Rigorously

Developed, And A Large Number Of Numerical Examples Are Included To Illustrate Its Application. General Statements Of Important Principles And Methods Are Almost Invariably Given By Practical Illustration. Apart From Illustrations Of Old And Conventional Instruments, Emphasis Has Been Placed On New Or Modern Instruments, Both For Ordinary As Well As Precise Work. A Good Deal Of Space Has Been Given To Instrumental Adjustments With Thorough Discussion Of Geometrical Principles In Each Case. Many New Advanced Problems Have Also Been Added Which Will Prove Useful For Competitive Examinations.

Advance Learning Resources Ojo Tosin 2021-05-18 This book was properly written and design to equilp, transforme, enlight and motivated their youth and exposes them to life changing opportunity on how to overcome financial challenges.

Fifth Generation Management Charles M. Savage 1996 This revised edition of Fifth Generation Management helps executives out of the rigid mindsets of the Industrial Era into the vibrant and invigorating possibilities of co-creation in the Knowledge Era. Divided into two parts, the first completely rewritten section narrates 'Five Days that Changed the Enterprise', a case study of senior executives who are forced out of their cozy little empires into a new network organization of their own design. The second part discusses the process of co-creating through virtual enterprising, dynamic teaming, and knowledge networking. Included is essential new information on fractal enterprises, holonic management systems, agile enterprises, and hypertext organizations. Charles Savage is president of Knowledge Era Enterprises, Inc and was formerly in the consultant division of DIgital Equipment Corporation. He presents 'Master Classes' on dynamic teaming and virtual enterprising and has written extensively on the knowledge era. His company's logo is a key with the phrase "Unlocking the Future". Charles Savage assists companies around the world to achieve that goal. Over 40,000 copies of previous edition sold world-wide Previous edition was awarded 'Book of the Year' by Tom Peters. Covers lessons learned over the last five years since Fifth Generation Management was first published.

Statistics for Agricultural Sciences G Nageswara Rao 2021-02 The author has thoroughly revised and updated the second edition and included SPSS data analysis Procedure for all the popular statistical methods and experimental designs

Historical Painting Techniques, Materials, and Studio Practice Arie Wallert 1995-08-24 Bridging the fields of conservation, art history, and museum curating, this volume contains the principal papers from an international symposium titled "Historical Painting Techniques, Materials, and Studio Practice" at the University of Leiden in Amsterdam, Netherlands, from June 26 to 29, 1995. The symposium—designed for art historians, conservators, conservation scientists, and museum curators worldwide—was organized by the Department of Art History at the University of Leiden and the Art History Department of the Central Research Laboratory for Objects of Art and Science in Amsterdam. Twenty-five contributors representing museums and conservation institutions throughout the world provide recent research on historical painting techniques, including wall painting and polychrome sculpture. Topics cover the latest art historical research and scientific analyses of original techniques and materials, as well as historical sources, such as medieval treatises and descriptions of painting techniques in historical literature. Chapters include the painting methods of Rembrandt and Vermeer, Dutch 17th-century landscape painting, wall paintings in English churches, Chinese paintings on paper and canvas, and Tibetan thangkas. Color plates and black-and-white photographs illustrate works from the Middle Ages to the 20th century.

The College Board College Handbook 2005

Network Security Essentials William Stallings 2007 Network Security Essentials, Third Edition is a thorough, up-to-date introduction to the deterrence, prevention, detection, and correction of security violations involving information delivery across networks and the Internet.

Engineering Metrology and Measurements Raghavendra, 2013-05 Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

2005 College Handbook: More Than 3,600 4-year and 2-year Colleges CollegeBoard 2004 Presents information on enrollment, fields of study, admission requirements, expenses, and student activities at two- and four-year colleges.

The Current State of Social Studies 1982 This volume, one in a series resulting from Project SPAN (Social Studies/Social Science Education: Priorities, Practices, and Needs), reviews and analyzes the current state of K-12 social studies. A major purpose of the review and analysis was to form a basis for recommendations for future directions that might be taken to improve social studies. The report contains six sections. The first section provides a broad and integrative analysis of the interrelated topics of rationales, definitions, approaches, goals, and objectives of social studies. The second section, "Curriculum Organization in Social Studies," describes the typical pattern of social studies programs from kindergarten through grade 12, stating that despite numerous variations that have occurred, the dominant pattern throughout the nation is one that was established more than 60 years ago. "Social Studies Curriculum Materials," the third section of the volume, describes the great extent to which students, teachers, administrators, and the public accept and rely on curriculum materials as essential aids to teaching, learning, and classroom management. Foremost among curriculum materials being used are textbooks. The topic of the fourth section is "Social Studies Teachers." There is general agreement that the teacher is "the central figure," the "key," or "the magic ingredient" in the learning process. The fifth section, "Instructional Practices in Social Studies," presents a detailed report on what teachers do. The last section, "Barriers to Change in Social Studies," focusing on the fact that the new social studies had relatively little impact on the schools, explores reasons for lack of change in schools. (Author/RM)

Cleaner Production Lennart Nilsson 2007

Transforming Insitutions Gabriela C. Weaver 2015-10-15 Higher education is coming under increasing scrutiny, both publically and within academia, with respect to its ability to appropriately prepare students for the careers that will make them competitive in the 21st-century workplace. At the same time, there is a growing awareness that many global issues will require creative and critical thinking deeply rooted in the technical STEM (science, technology, engineering, and mathematics) disciplines. However, the existing and ingrained structures of higher education, particularly in the STEM fields, are not set up to provide students with extensive skill development in communication, teamwork, and divergent thinking, which is needed for success in the knowledge economy. In 2011 and again in 2014, an international conference was convened to bring together university leaders, educational policymakers and researchers, and funding agency representatives to discuss the issue of institutional transformation in higher education, particularly in the STEM disciplines. Central to the issue of institutional transformation is the ability to provide new forms of instruction so that students

can gain the variety of skills and depth of knowledge they will need. However, radically altering approaches to instruction sets in motion a domino effect that touches on learning space design, instructional technology, faculty training and reward structures, course scheduling, and funding models. In order for one piece to move, there must be coordinated movement in the others, all of which are part of an entrenched and interconnected system. Transforming Institutions brings together chapters from the scholars and leaders who were part of the 2011 and 2014 conferences. It provides an overview of the context and challenges in STEM higher education, contributed chapters describing programs and research in this area, and a reflection and summary of the lessons from the many authors' viewpoints, leading to suggested next steps in the path toward transformation.

Effective Delivery of Small-scale Federal-aid Projects Leslie Ann McCarthy 2011 TRB's National Cooperative Highway Research Program (NCHRP) Synthesis 414: Effective Delivery of Small-Scale Federal-Aid Projects examines streamlined methods for meeting federal funding requirements for small-scale highway projects. The report explores ways that state departments of transportation work with local agencies to implement small projects eligible for federal funding. Appendix G to NCHRP Synthesis 414 is available only in the pdf version of the report.