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Newton's Football - Allen St. John 2013-11-19
In the bestselling tradition of Freakonomics and Scorecasting comes a clever and accessible look at the big ideas underlying the science of football. Did you hear the one about the MacArthur genius physicist and the NFL coach? It’s not a joke. It’s actually an innovative way to understand chaos theory, and the remarkable complexity of modern professional football. In Newton’s Football, journalist and New York Times bestselling author Allen St. John and TED Speaker and former Yale professor Ainissa Ramirez explore the unexpected science behind America’s Game. Whether it’s Jerry Rice finding the common ground between quantum physics and the West Coast offense or an Ivy League biologist explaining—at a granular level—exactly how a Big Mac morphs into an outside linebacker, Newton’s Football illuminates football—and science—through funny, insightful stories told by some of the world’s sharpest minds. With a clear-eyed empirical approach—and an exuberant affection for the game—St. John and Ramirez address topics that have long beguiled scientists and football fans alike, including: • the unlikely evolution of the football (or, as they put it, “The Divinely Random Bounce of the Prolate Spheroid”) • what Vince Lombardi has in common with Isaac Newton • how the hardwired behavior of monkeys can explain a head coach’s reluctance to go for it on fourth-down • why a gruesome elevator accident jump-started the evolution of placekicking • how Teddy Roosevelt saved football using the same behavioral science concept that Dreamworks would use to save Shrek • why woodpeckers don’t get concussions • how better helmets actually made the game more dangerous Every Sunday the NFL shares a secret with only its savviest fans: The game isn’t just a clash of bodies, it’s a clash of ideas. The greatest minds in football have always possessed an instinctual grasp of science, understanding the big ideas and gritty realities that inform the game’s rich past, as well as its increasingly uncertain future. Blending smart reporting, counterintuitive creativity, and compelling narrative, Newton’s Football takes gridiron analysis to the next level, giving fans a book that entertains, enlightens, and explains the game anew. Praise for Newton’s Football “It was with great interest that I read Newton’s Football. I’m a fan of applying of science to sport and Newton’s Football truly delivers. The stories are as engaging as they are informative. This is a great read for all football fans.”—Mark Cuban “A delightfully improbable book putting science nerds and sports fans on the same page.”—Booklist “This breezily-written but informative book should pique the interest of any serious football fan in the twenty-first century.”—The American Spectator “The authors have done a worthy job of combining popular science and sports into a work that features enough expertise on each topic to satisfy nerds and jocks alike. . . . The writers succeed in their task thanks to in-depth scientific knowledge, a wonderful grasp of football’s past and present, interviews with a wide array of experts, and witty prose. . . . [Newton’s Football is] fun and thought-provoking, proving that football is a mind game as much as it is a ball game.”—Publishers Weekly
Use of Humic Substances to Remediate Polluted Environments: From Theory to Practice - Irina V. Perminova 2005-03-24
Effective remediation of polluted environments is a priority in both Eastern and Western countries. In the U.S. and Europe, remediation costs generally exceed the net economic value of the land. As a result, scientists and engineers on both sides of the Atlantic have aggressively tried to develop novel technologies to meet regulatory standards at a fraction of the costs. In situ remediation shows considerable promise from both technical and economic perspectives. In situ technologies that deploy natural attenuating agents such as humic substances (HS) may be even more cost effective. Numerous studies have shown humics capable of altering both the chemical and the physical speciation of the ecotoxicants and in turn attenuate potential adverse environmental repercussions. Furthermore, the reserves of inexpensive humic materials are immense. Which suggests HS portend great promise as inexpensive amendments to mitigate the environmental impacts of ecotoxicants and as active agents in remediation. To elucidate emerging concepts of humics-based remediation technologies, we organized the NATO Advanced Research Workshop (ARW), entitled "Use of humates to remediate polluted environments: from theory to practice", held on September 23-29, 2002 in Zvenigorod, Russia (see the web-site http://www.mgumus.chem.msu.ru/arw).
Arts Based Health Care Research: A Multidisciplinary Perspective - Kathryn Hinsliff-Smith 2022-08-09
This book, written by academics across a range of disciplines, including healthcare and social sciences discusses the increasing use of the arts in healthcare research, which often stems from the recognition that for some topics of investigation, or when dealing with sensitive issues, the usual qualitative or quantitative paradigms are not appropriate. While there is undoubtedly a place for such approaches, arts-based research paradigms (ABR) offers, not only additional study and data-collection tools, but also provides a new and enjoyable experience for those involved. The use of the arts as a medium to improve health and wellbeing was well documented by the World Health Organisation (WHO) in 2019, with over 3,000 studies conducted around the globe on the value of the arts in the prevention of ill health and promotion of health across the life span. This book examines how the arts, in a variety of forms, can be used by those working directly in healthcare settings as well as those involved in research across all health or patient settings. Covering a range of ABR genres, including literature (such as narrative and poetic inquiry); performance (music, dance, play building); visual arts (drawing and painting, collage, installation art, comics); and audio-visual and multimethod approaches, this user- friendly book will appeal to nurses, researchers in nursing and allied healthcare professions, as well professionals in the social sciences, psychosociology, psychology, literature and arts.
Forthcoming Books - Rose Arny 1990

A Gentle Reminder - Bianca Sparacino 2020-11
A gentle reminder, for the days you feel light in this world, and for the days in which the sun rises a little slower. A gentle reminder for when your heart is full of hope, and for when you are learning how to heal it. A gentle reminder for when you finally begin to trust in the goodness, and for when you need the kind of words that hug your broken pieces back together. A gentle reminder for when growth hangs heavy in the air, for when you need to tuck your strength into your bones just to make it to tomorrow. A gentle reminder for when you are balancing the messiness, and the beauty, of what it means to be human, when you are teaching yourself that it is okay to be both happy and sad, that you are real, not perfect. A gentle reminder for when you seek the words you needed when you were younger. A gentle reminder for when you need to hear that you deserve to be loved the way you love others. A gentle reminder for when you need to recognize that you are not your past, that you are not your faults. A gentle reminder for when you need to believe in staying soft, in continuing to be the kind of person who cares. A gentle reminder for when you need to believe in loving deeply in a world that sometimes fails to do so. A gentle reminder to keep going. A gentle reminder to hope--
Historically Black Colleges and Universities Program - 1991

Understanding Minority-Serving Institutions - Marybeth Gasman 2008-03-13
Explores the particulars of minority-serving institutions while also highlighting their interconnectedness.
Solved Problems in Analysis - Orin J. Farrell 2013-11-06
Nearly 200 problems, each with a detailed, worked-out solution, deal with the properties and applications of the gamma and beta functions, Legendre polynomials, and Bessel functions. 1971 edition.
Cognitive Behavioural Therapy in Mental Health Care - Alec Grant 2010-02-17
This second edition provides an accessible and thorough overview of the practice of CBT within mental health care. Updates and additions include: - Revised chapters on the therapeutic relationship and case formulation - New material on personality disorders and bipolar disorder - New material on working with diversity - Content on the multidisciplinary context of CBT, the service user perspective, CBT from a holistic perspective - Developments within the cognitive behavioural psychotherapies - Continous professional development for the CBT practitioner - Photocopiable worksheets linked to case studies. Already a tried-and-tested guide for trainee psychologists and psychotherapists, as well as clinicians in mental health services and private practices, this text is also of value to practitioners who need refresher courses in CBT.
Hydrogen Bond Research - Peter Schuster 2012-12-06
Seven review articles and original papers provide a representative overview of the research work done in hydrogen bond research at Austrian universities. The topics covered by the contributions are: state-of-the-art of understanding hydrogen bonding in biopolymers; recent NMR techniques for studying hydrogen bonding in aqueous solutions; intramolecular hydrogen bonding and proton transfer in a class of Mannich bases derived from substituted phenols and naphthols; competition between intramolecular hydrogen bonds in ortho-disubstituted phenols; molecular dynamic simulations on proton transfer in 5,8-dihydroxynaphthoquinone and in the formic acid dimer; accurate calculations of the intermolecular interactions in cyanoacetylen dimers; correlation between OH...O bond distances and OH stretching frequencies as derived from structural and spectroscopic data of minerals.
Survey of Industrial Chemistry - Philip J. Chenier 2012-12-06
Survey of Industrial Chemistry arose from a need for a basic text dealing with industrial chemistry for use in a one semester, three-credit senior level course taught at the University of Wisconsin-Eau Claire. This edition covers all important areas of the chemical industry, yet it is reasonable that it can be covered in 40 hours of lecture. Also an excellent resource and reference for persons working in the chemical and related industries, it has sections on all important technologies used by these industries: a one-step source to answer most questions on practical, applied chemistry. Young scientists and engineers just entering the workforce will find it especially useful as a readily available handbook to prepare them for a type of chemistry quite different than they have seen in their traditional coursework, whether graduate or undergraduate.
Techniques and Experiments for Organic Chemistry - Addison Ault 1976

Women in Industrial and Systems Engineering - Alice E. Smith 2019-09-13
This book presents a diversity of innovative and impactful research in the field of industrial and systems engineering (ISE) led by women investigators. After a Foreword by Margaret L. Brandeau, an eminent woman scholar in the field, the book is divided into the following sections: Analytics, Education, Health, Logistics, and Production. Also included is a comprehensive biography on the historic luminary of industrial engineering, Lillian Moeller Gilbreth. Each chapter presents an opportunity to learn about the impact of the field of industrial and systems engineering and women's important contributions to it. Topics range from big data analysis, to improving cancer treatment, to sustainability in product design, to teamwork in engineering education. A total of 24 topics touch on many of the challenges facing the world today and these solutions by women researchers are valuable for their technical innovation and excellence and their non-traditional perspective. Found within each author's biography are their motivations for entering the field and how they view their contributions, providing inspiration and guidance to those entering industrial engineering.
Practical Gas Chromatography - Katja Dettmer-Wilde 2014-11-05
Gas chromatography continues to be one of the most widely used analytical techniques, since its applications today expand into fields such as biomarker research or metabolomics. This new practical textbook enables the reader to make full use of gas chromatography. Essential fundamentals and their implications for the practical work at the instrument are provided, as well as details on the instrumentation such as inlet systems, columns and detectors. Specialized techniques from all aspects of GC are introduced ranging from sample preparation, solvent-free injection techniques, and pyrolysis GC, to separation including fast GC and comprehensive GCxGC and finally detection, such as GC-MS and element-specific detection. Various fields of application such as enantiomer, food, flavor and fragrance analysis, physicochemical measurements, forensic toxicology, and clinical analysis are discussed as well as cutting-edge application in metabolomics is covered.
Polymer Optical Fibres - Christian-Alexander Bunge 2016-08-25
Polymer Optical Fibres: Fibre Types, Materials, Fabrication, Characterization, and Applications explores polymer optical fibers, specifically their materials, fabrication, characterization, measurement techniques, and applications. Optical effects, including light propagation, degrading effects of attenuation, scattering, and dispersion, are explained. Other important parameters like mechanical strength, operating temperatures, and processability are also described. Polymer optical fibers (POF) have a number of advantages over glass fibers, such as low cost, flexibility, low weight, electromagnetic immunity, good bandwidth, simple installation, and mechanical stability. Provides systematic and comprehensive coverage of materials, fabrication, properties, measurement techniques, and applications of POF Focuses on industry needs in communication, illumination and sensors, the automotive industry, and medical and biotechnology Features input from leading experts in POF technology, with experience spanning optoelectronics, polymer, and textiles Explains optical effects, including light propagation, degrading effects of attenuation, scattering, and dispersion
Speaking Out Against Drug Legalization - 1995

Broadening Participation in STEM - Zayika Wilson-Kennedy 2019-02-28
This book reports on high impact educational practices and programs that have been demonstrated to be effective at broadening the participation of underrepresented groups in the STEM disciplines.
Hbcu Today - J. M. Emmert 2009-01-01

World Directory of Crystallographers - Yves Epelboin 2013-04-17
The 10th edition of the World Directory of Crystallographers and of Other Scientists Employing Crystallographic Methods is a revised and up-to-date edition of the World Directory and contains the current addresses, academic status and research interests of over 8000 scientists in 74 countries. It is produced directly from the regularly updated electronic World Directory database, which is accessible via the World-Wide Web. Full details of the database are given in an Annex to the printed edition.
Age of Information - Yin Sun 2022-06-01
Information usually has the highest value when it is fresh. For example, real-time knowledge about the location, orientation, and speed of motor vehicles is imperative in autonomous driving, and the access to timely information about stock prices and interest rate movements is essential for developing trading strategies on the stock market. The Age of Information (AoI) concept, together with its recent extensions, provides a means of quantifying the freshness of information and an opportunity to improve the performance of real-time systems and networks. Recent research advances on AoI suggest that many well-known design principles of traditional data networks (for, e.g., providing high throughput and low delay) need to be re-examined for enhancing information freshness in rapidly emerging real-time applications. This book provides a suite of analytical tools and insightful results on the generation of information-update packets at the source nodes and the design of network protocols forwarding the packets to their destinations. The book also points out interesting connections between AoI concept and information theory, signal processing, and control theory, which are worthy of future investigation.
Knowing our lands and resources - Karki, Madhav 2017-12-31

Production of Recombinant Proteins - Gerd Gellissen 2006-03-06

While the choices of microbial and eukaryotic expression systems for production of recombinant proteins are many, most researchers in academic and industrial settings do not have ready access to pertinent biological and technical information since it is normally scattered throughout the scientific literature. This book closes the gap by providing information on the general biology of the host organism, a description of the expression platform, a methodological section -- with strains, genetic elements, vectors and special methods, where applicable -- as well as examples of proteins produced with the respective platform. The systems thus described are well balanced by the inclusion of three prokaryotes (two Gram-negatives and one Gram-positive), four yeasts, two filamentous fungi and two higher eukaryotic cell systems -- mammalian and plant cells. Throughout, the book provides valuable practical and theoretical information on the criteria and schemes for selecting the appropriate expression platform, the possibility and practicality of a universal expression vector, and on comparative industrial-scale fermentation, with the production of a recombinant Hepatitis B vaccine chosen as an industrial example. With a foreword by Herbert P. Schweizer, Colorado State University, USA: "As a whole, this book is a valuable and overdue resource for a varied audience. It is a practical guide for academic and industrial researchers who are confronted with the design of the most suitable expression platform for their favorite protein for technical or pharmaceutical purposes. In addition, the book is also a valuable study resource for professors and students in the fields of applied biology and biotechnology."

The Apple Genome - Schuyler S. Korban 2021-07-14

This book covers information on the economics; botany, taxonomy, and origin; germplasm resources; cytogenetics and nuclear DNA; genetic improvement efforts of scion cultivars; genetic and genomic improvement efforts of rootstocks; genetic and physical mapping; genomic resources; genome and epigenome; regulatory sequences; utility of whole-genome sequencing and gene editing in trait dissection; flowering and juvenility; cold hardiness and dormancy; fruit color development; fruit acidity and sugar content; metabolomics; biology and genomics of the microbiome; apple domestication; as well as other ‘omics’ opportunities and challenges for genetic improvement of the apple. The cultivated apple (Malus x domestica Borkh.) is one of the most important tree fruit crops of temperate regions of the world. It is widely cultivated and grown in North America, Europe, and Asia. The apple fruit is a highly desirable fruit due to its flavor, sugar and acid content, metabolites, aroma, as well as its overall texture and palatability. Furthermore, it is a rich source of important nutrients, including antioxidants, vitamins, and dietary fiber.

Lyophilized Biologics and Vaccines - Dushyant Varshney 2015-05-19

This book provides a detailed account of the most recent developments, challenges and solutions to seamlessly advance and launch a lyophilized biologics or vaccine product, based on diverse modalities, ranging from antibodies (e.g., monoclonal, fused), complex biologics (e.g., antibody drug conjugate, PEGylated proteins), and vaccines (e.g., recombinant-protein based). The authors adeptly guide the reader through all crucial aspects, from biophysical and chemical stability considerations of proteins, analytical methods, advances in controlled ice nucleation and quality-by-design approaches, alternate drying technology, to latest regulatory, packaging and technology transfer considerations to develop a stable, safe and effective therapeutic protein, vaccine and biotechnology products. Lyophilized Biologics and Vaccines: Modality-Based Approaches is composed of four sections with a total of 17 chapters. It serves as a reference to all critical assessments and steps from early pre-formulation stages to product launch: Provides recent understanding of heterogeneity of protein environment and selection of appropriate buffer for stabilization of lyophilized formulations Details the latest developments in instrumental analysis and controlled ice nucleation technology Explains in-depth lyophilized (or dehydrated) formulation strategies considering diverse modalities of biologics and vaccines, including plasmid DNA and lipid-based therapeutics Details an exhaustive update on quality-by-design and process analytical technology approaches, illustrated superbly by case studies and FDA perspective Provides the latest detailed account of alternate drying technologies including spray drying, bulk freeze-drying and crystallization, supported exceptionally by case studies Provides a step-by-step guide through critical considerations during process scale-up, technology transfer, packaging and drug delivery device selection, for a successful lyophilization process validation, regulatory submission and product launch Chapters are written by one or more world-renowned leading authorities from academia, industry or regulatory agencies, whose expertise cover lyophilization of the diverse modalities of biopharmaceuticals. Their contributions are based on the exhaustive review of literature coupled with excellent hands-on experiences in laboratory or GMP setup, making this an exceptional guide to all stages of lyophilized or dehydrated product development.

Experimental Organic Chemistry - Daniel R. Palleros 2000-02-04

This cutting-edge lab manual takes a multiscale approach, presenting both micro, semi-micro, and macroscale techniques. The manual is easy to navigate with all relevant techniques found as they are needed. Cutting-edge subjects such as HPLC, bioorganic chemistry, multistep synthesis, and more are presented in a clear and engaging fashion.

Activities Handbook for the Teaching of Psychology - Kathleen D. Lowman 1999-01-01

This volume contains a wide range of exercises that emphasize active learning. Each of the 80-plus exercises is described in a cookbook format that allows the instructor to quickly see the concept underlying the activity, materials needed, and class time required.

Little Miss Fucking Sunshine - Ij Publishing, Llc 2017-02-22

A Journal is everything you want. A Diary, Day Planner, School Notebook, Organizer, a place to doodle and more. Put simply, a Journal is the tool you need. 108 Pages, Lined on both sides White Paper, Non-Refillable Paperback, 5.5" x 8.5" Undated, Unnumbered

Lyophilization of Biopharmaceuticals - Henry R. Costantino 2004

Humans have been experimenting with lyophilization, or freeze-drying, as a method to preserve biological structures for over a thousand years. This comprehensive volume, intended for scientists in both academia and industry, covers a wide range of topics relevant to the formulation of peptide and protein drugs in the freeze-dried state.

Organic Chemistry Laboratory Manual - Anne B. Padias 2011

Hansenula Polymorpha - Gerd Gellissen 2002-06-10

Methylotrophic yeasts have attracted increasing interest as useful systems for fundamental research and applied purposes. Hansenula polymorpha in particular has become a preferred organism for the production of recombinant proteins on an industrial scale. Product examples range from therapeutics such as hepatitis B vaccines to industrial enzymes like the feed additive phytase. This book is addressed to researchers and scientists working in the field and provides a comprehensive, up-to-date overview of the present status of Hansenula polymorpha research, applications and methods. Aspects of the organism ranging from systematics, genetics, methanol metabolism and peroxisomal function to its use as a technology platform for the production of recombinant proteins are covered. A detailed chapter on laboratory methods is also included.

Bioinvaders - Sarah Johnson 2010

We are pleased to announce a new series of environmental history readers, suitable for students. Comprising essays selected from our journals, Environment and History and Environmental Values, each inexpensive paperback volume will address an important theme in environmental history, combining underlying theory and specific case-studies. The first volume, Bio-invaders, investigates the rhetoric and realities of exotic, introduced and 'alien' species. The book comprises a number of general essays, exploring and challenging common perceptions about such species, and a series of case studies of specific species in specific contexts. Its geographical coverage ranges from the United Kingdom to New Zealand by way of South Africa, India and Palestine; and the essays cover both historical and recent introductions.

Notable New Orleanians: A Tricentennial Tribute - William D. Reeves 2018-04-26

...a beautiful paperback style book which will present a fascinating narrative describing the people and events that have shaped New Orleans.

Memory - Bennett L. Schwartz 2013-07-02

The science and practice of memory come to life with Bennett Schwartz' Memory, Second Edition. Integrated coverage of cognitive psychology and neuroscience throughout the text connect theory and research to the areas in the brain where memory processes occur, while unique applications of memory concepts to such areas as education, investigations, and courtrooms engage students in an exploration of how memory works in everyday life. Four themes create a framework for the text: the active nature of

learning and remembering; memory's status as a biological process; the multiple components of memory systems; and how memory principles can improve our individual ability to learn and remember. Substantive changes in each chapter and 156 new references bring this new edition completely up to date and offer students an array of high-interest examples for augmenting their own memory abilities and appreciation of memory science.

Theory and Experiment in Electrocatalysis - Perla B. Balbuena 2010-11-02

This review volume highlights advances in both theoretical and experimental techniques and points out both the progress made and the challenges to overcome in the near future. The topics cover a broad spectrum going from surface characterization, investigation of thermodynamics and kinetics mechanistic pathways, electrochemical experiments and theory, multi-scale modeling applied to synthesis and growth processes such as electrodeposition, and corrosion reactions arising from the nanosize of electrocatalysts that affect their lifetime and activity.

The Art of Weed Butter - Mennlay Golokeh Aggrey 2019-01-15

Make your butter just right and you'll gets the highest quality results. Weed butter, or cannabutter, is the optimal way to transfer the THC from cannabis into an edible. Plus, with the right method, you will transfer the full spectrum of cannabis's chemical components, including non-psychoactive ones that quietly benefit your health. In this book, you will learn how to infuse weed into butter, oil, coconut oil or virtually any fat you prefer. But you can't just sprinkle your stash onto a recipe, as creating truly great weed butter is an art. Packed with helpful color photos and step-by-step instructions, this book shows how to make the perfect weed butter for any edible and every application, from reducing stress and battling pain to helping with PTSD and overcoming night terrors.

Noncovalent Interactions in Catalysis - Kamran T Mahmudov 2019-03-04

Noncovalent interactions often provide the spine of biomolecular and material structures, and can therefore play a key role in biological and catalytic processes. Selectivity in chemical reactions, particularly in catalytic processes, is often an orchestral action of various noncovalent interactions occurring in intermediates and transition states. Although the role of hydrogen bonding is well explored in catalysis, the other types of weak interactions, namely cation–π, anion–π, π–π stacking, pseudo-agostic, halogen, chalcogen, pnictogen, tetrel and icosagen bonds, must also be considered. Naturally, the chemo-, regio- or stereoselectivity of a reaction depends on the stability of such noncovalent-interaction-supported species in catalytic systems. Therefore, an in-depth understanding of these weak interactions may be the key to designing new catalytic materials. Providing an overview of the role of these different types of noncovalent interactions in both homogenous and heterogeneous catalysis, this book is a valuable resource for synthetic chemists who are interested in exploring and further developing noncovalent-interaction-assisted synthesis and catalysis.

25 Years of Ed Tech - Martin Weller 2020-02-26

In this lively and approachable volume based on his popular blog series, Martin Weller demonstrates a rich history of innovation and effective implementation of ed tech across higher education. From Bulletin Board Systems to blockchain, Weller follows the trajectory of education by focusing each chapter on a technology, theory, or concept that has influenced each year since 1994. Calling for both caution and enthusiasm, Weller advocates for a critical and research-based approach to new technologies, particularly in light of disinformation, the impact of social media on politics, and data surveillance trends. A concise and necessary retrospective, this book will be valuable to educators, ed tech practitioners, and higher education administrators, as well as students.

Entering Research - Janet L. Branchaw 2019-07-10

For students whose experience with science has been primarily in the classroom, it can be difficult to identify and contact potential mentors, and to navigate the transition to a one-on-one, mentor-student relationship. This is especially true for those who are new to research, or who belong to groups that are underrepresented in research. The Entering Research curriculum offers a mechanism to structure the independent research experience, and help students overcome these challenges.

Molecular Visions (Organic, Inorganic, Organometallic) Molecular Model Kit #1 by Darling Models to accompany Organic Chemistry - Darling Models 2000-04-07

Molecular models are as vital a tool for the study of chemistry as calculators are for the study of mathematics. Molecular Visions models may be assembled in infinite combinations enabling the user to construct not only familiar configurations but also undiscovered possibilities. Models are intended to inspire the imagination, stimulate thought, and assist the visualization process. They present the user with a solid form of an abstract object that can otherwise only be visualized by the chemist. While chemistry textbooks use letters and graphics to describe molecules, molecular models make them "real". MOLECULAR VISIONS Organic Kit #1 is in a green plastic box, 9"x4"x2"

Sexual Harassment of Women - National Academies of Sciences, Engineering, and Medicine 2018-09-01

Over the last few decades, research, activity, and funding has been devoted to improving the recruitment, retention, and advancement of women in the fields of science, engineering, and medicine. In recent years the diversity of those participating in these fields, particularly the participation of women, has improved and there are significantly more women entering careers and studying science, engineering, and medicine than ever before. However, as women increasingly enter these fields they face biases and barriers and it is not surprising that sexual harassment is one of these barriers. Over thirty years the incidence of sexual harassment in different industries has held steady, yet now more women are in the workforce and in academia, and in the fields of science, engineering, and medicine (as students and faculty) and so more women are experiencing sexual harassment as they work and learn. Over the last several years, revelations of the sexual harassment experienced by women in the workplace and in academic settings have raised urgent questions about the specific impact of this discriminatory behavior on women and the extent to which it is limiting their careers. Sexual Harassment of Women explores the influence of sexual harassment in academia on the career advancement of women in the scientific, technical, and medical workforce. This report reviews the research on the extent to which women in the fields of science, engineering, and medicine are victimized by sexual harassment and examines the existing information on the extent to which sexual harassment in academia negatively impacts the recruitment, retention, and advancement of women pursuing scientific, engineering, technical, and medical careers. It also identifies and analyzes the policies, strategies and practices that have been the most successful in preventing and addressing sexual harassment in these settings.