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Data Report on the Littleton Quarry Blast Experiment Charles Taylor 1988 The Littleton Quarry Blast Experiment (LQBE) was designed and implemented to begin the characterization of multiple row quarry explosions as sources of seismic energy. The experiment was divided into two distinct parts, those being observations in the near and far field. Ground motion resulting from three quarry shots at the Lone Star San-Vel quarry in Littleton, Mass., and from one excavation shot at a construction site in Westford, Mass., was measured. Collaborators from five institutions fielded 27 digital seismographs in five separate arrays for the four shots. The array configurations used were: 1) a near field array of accelerometers set up on the quarry property at ranges up to a few hundred meters; 2) a linear array of seismographs at a spacing of approximately 2.5 km extending from the quarry to a distance of 32 km in the direction of Boston College's seismic network station QUA; 3) an azimuthal array of four stations along an arc of a radius of approximately 25 km centered on the quarry; 4) a reproduction of the A and B rings of the NORESS array located 21 km from the quarry; 5) a linear array of four seismographs extending from the quarry to the site of the NORESS array.

11th PhD Symposium in Tokyo Japan FIB – International Federation for Structural Concrete 2016-08-01

U.S. Army Armor Center & Fort Knox, Northern Training Complex 2002

A Laboratory Course in Tissue Engineering Melissa Kurtis Micou 2012-08-16 Filling the need for a lab textbook in this rapidly growing field, A Laboratory Course in Tissue Engineering helps students develop hands-on experience. The book contains fifteen standalone experiments based on both classic tissue-engineering approaches and recent advances in the field. Experiments encompass a set of widely applicable techniques: cell culture, microscopy, histology, immunohistochemistry, mechanical testing, soft lithography, and common biochemical assays. In addition to teaching these specific techniques, the experiments emphasize engineering analysis, mathematical modeling, and statistical experimental design. A Solid Foundation in Tissue Engineering—and Communication Skills Each experiment includes background information, learning objectives, an overview, safety notes, a list of materials, recipes, methods, pre- and postlab questions, and references. Emphasizing the importance for engineering students to develop strong communication skills, each experiment also contains a data analysis and reporting section that supplies a framework for succinctly documenting key results. A separate chapter provides guidelines for reporting results in the form of a technical report, journal article, extended abstract, abstract, or technical poster. Customize Your Courses with More Than a Semester's Worth of Experiments The book is a convenient source of instructional material appropriate for undergraduate or graduate students with fundamental knowledge of engineering and cell biology. All of the experiments have been extensively tested to improve the likelihood of successful data collection. In addition, to minimize lab costs, the experiments make extensive use of equipment commonly found in laboratories equipped for tissue culture. A solutions manual, available with qualifying course adoption, includes answers to pre- and postlab questions, suggested equipment suppliers and product numbers, and other resources to help plan a new tissue engineering course.

OAR Cumulative Index of Research Results

Immunology & Serology in Laboratory Medicine5 Mary Louise Turgeon 2013-02-15 Rev. ed. of: Immunology and serology in laboratory medicine / Mary Louise Turgeon. 4th ed. c2009.

Monitoring the Comprehensive Nuclear-Test-Ban Treaty: Seismic Event Discrimination and Identification William R. Walter 2013-04-18 In September 1996, the United Nations General Assembly adopted the Comprehensive Nuclear-Test-Ban Treaty (CTBT), prohibiting nuclear explosions worldwide, in all environments. The treaty calls for a global verification system, including a network of 321 monitoring stations distributed around the globe, a data communications network, an international data center, and onsite inspections, to verify compliance. The problem of identifying small-magnitude banned nuclear tests and discriminating between such tests and the background of earthquakes and mining-related seismic events, is a challenging research problem. Because they emphasize CTBT verification research, the 12 papers in this special volume primarily addresses regional data recorded by a variety of arrays, broadband stations, and temporarily deployed stations. Nuclear explosions, earthquakes, mining-related explosions, mine collapses, single-charge and ripple-fired chemical explosions from Europe, Asia, North Africa, and North America are all studied. While the primary emphasis is on short-period, body-wave discriminants and associated source and path corrections, research that focuses on long-period data recorded at regional and teleseismic distances is also presented Hence, these papers demonstrate how event identification research in support of CTBT monitoring has expanded in recent years to include a wide variety of event types, data types, geographic regions and statistical techniques.

Nuclear Explosion Services for Industrial Applications United States. Congress. Joint Committee on Atomic Energy 1969 Considers H.R. 477 and identical H.R. 10288 and companion S. 1885, to amend the Atomic Energy Act to authorize AEC to provide peaceful nuclear explosives to commercial domestic and foreign concerns under an expanded Plowshare Program. Includes report "Nuclear Construction Engineering Technology" by Lt. Col. Bernard C. Hughes, Sept. 1968 (p. 447-629).

Blast Mitigation Using Water - A Status Report 2002 The need to mitigate the effects of blast waves has been heightened by the recent incident with the USS Cole. In the spirit of one of the findings of the DoD USS Cole Commission, that there is a need for, 'More responsive application of currently available military equipment, commercial technologies, and aggressive research and development', this report reviews the current knowledge base on blast mitigation using water and identifies the key issues that need to be resolved in order to develop an effective waterbased blast mitigation system for shipboard use in both peacetime and wartime. There are several ways in which the use of water sprays can mitigate the effects of an explosion in a ship compartment. It may: (1) break up larger droplets into finer mist (the breakup process extracts energy from the shock and weakens it); (2) directly lead to an attenuation of the shock waves produced; (3) reduce the intensity of secondary shock and pressure wave reflections from the walls and other objects in the enclosure; (4) slow down or quench the chemical reactions taking place behind the shock waves; and (5) dilute the concentration of explosive gases in the enclosure and hence prevent a

secondary gas explosion or fire. In addition, the interaction depends on whether we are dealing with a shock wave, detonation or deflagration wave and the amount of water and size of the droplets that are present. Under certain circumstances the introduction of water spray could have an adverse effect by improving fuel-air mixing and accelerating flame propagation. These conditions have been identified in this report.

BIO2010 National Research Council 2003-02-13 Biological sciences have been revolutionized, not only in the way research is conducted -- with the introduction of techniques such as recombinant DNA and digital technology -- but also in how research findings are communicated among professionals and to the public. Yet, the undergraduate programs that train biology researchers remain much the same as they were before these fundamental changes came on the scene. This new volume provides a blueprint for bringing undergraduate biology education up to the speed of today's research fast track. It includes recommendations for teaching the next generation of life science investigators, through: Building a strong interdisciplinary curriculum that includes physical science, information technology, and mathematics. Eliminating the administrative and financial barriers to cross-departmental collaboration. Evaluating the impact of medical college admissions testing on undergraduate biology education. Creating early opportunities for independent research. Designing meaningful laboratory experiences into the curriculum. The committee presents a dozen brief case studies of exemplary programs at leading institutions and lists many resources for biology educators. This volume will be important to biology faculty, administrators, practitioners, professional societies, research and education funders, and the biotechnology industry.

Subject Index to Unclassified ASTIA Documents Defense Documentation Center (U.S.) 1960

Genomes, Evolution, and Culture Rene J. Herrera 2016-03-01 This book combines recent information and discoveries in the field of human molecular biology and human molecular evolution. It provides an interdisciplinary approach drawing together data from various diverse disciplines to address both the more classical anthropological content and the current more contemporary molecular focus of courses. Chapters include a history of human evolutionary genetics; the human genome structure and function; population structure and variability; gene and genomic dynamics; culture; health and disease; bioethics; future.

Sequence — Evolution — Function Eugene V. Koonin 2013-06-29 Sequence - Evolution - Function is an introduction to the computational approaches that play a critical role in the emerging new branch of biology known as functional genomics. The book provides the reader with an understanding of the principles and approaches of functional genomics and of the potential and limitations of computational and experimental approaches to genome analysis. Sequence - Evolution - Function should help bridge the "digital divide" between biologists and computer scientists, allowing biologists to better grasp the peculiarities of the emerging field of Genome Biology and to learn how to benefit from the enormous amount of sequence data available in the public databases. The book is non-technical with respect to the computer methods for genome analysis and discusses these methods from the user's viewpoint, without addressing mathematical and algorithmic details. Prior practical familiarity with the basic methods for sequence analysis is a major advantage, but a reader without such experience will be able to use the book as an introduction to these methods. This book is perfect for introductory level courses in computational methods for comparative and functional genomics.

Dynamic Response and Failure of Composite Materials and Structures Valentina Lopresto 2017-05-17 Dynamic Response and Failure of Composite Materials and Structures presents an overview of recent developments in a specialized area of research with original contributions from the authors who have been asked to outline needs for further investigations in their chosen topic area. The result is a presentation of the current state-of-the art in very specialized research areas that cannot be found elsewhere in the literature. For example, Massabò presents a newly developed theory for laminated composite plates that accounts for imperfect bonding between layers with new solutions for problems involving thermal effects. This theory is new and computationally-efficient, and the author describes how it fits in the broader context of composite plate theory. Abrate discusses the design of composite marine propellers and presents a detailed derivation of the equations of motion of a rotating blade, including centrifugal effects and the effects of pre-twisting and other geometric parameters. This book is a major reference resource for academic and industrial researchers and designers working in aerospace, automotives, and the marine engineering industry. Presents recent developments in a research field that has experienced tremendous advances because of improved computational capabilities, new materials, and new testing facilities Includes contributions from leading researchers from Europe and the USA who present the current state-of-the-art, including unique and original research Provides extensive experimental results and numerical solutions Appeals to a broad range of professional researchers working in aerospace, automotive, and marine engineering fields

Technical Report 1961

Strengthening Forensic Science in the United States National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Data Report on the Littleton Quarry Blast Experiment 1988

TID 1961

Bibliography and Index on Dynamic Pressure Measurement William George Brombacher 1955

Radiation Gas Dynamics Shih-I. Pai 2012-12-06 When the temperature of a gas is not too high and the density of a gas is not too low, the transfer of heat by radiation is usually negligibly small in comparison with that by conduction and convection. However, in the hypersonic flow of space flight, particularly in the re-entry of a space vehicle, and in the flow problem involving nuclear reaction such as in the blast wave of nuclear bomb or in the peaceful use of the controlled fusion reaction, the temperature of the gas may be very high and the density of the gas may be very low. As a result, thermal radiation becomes a very important mode of heat transfer. A complete analysis of such high temperature flow fields should be based upon a study of the gasdynamic field and the radiation field simultaneously. Hence during the last few years, considerable efforts have been made to study such interaction problems between gasdynamic field and radiation field and a new title, Radiation Gasdynamics, has been suggested for this subject. Even though radiative transfer has been studied for a long time by astro physicists, the interaction between the radiation field and the gadsynamic field has been only extensively studied recently.

Report 1955

Crime Lab Report John M. Collins 2019-09-17 Crime Lab Report compiles the most relevant and popular articles that appeared in this ongoing periodical between 2007 and 2017. Articles have been categorized

by theme to serve as chapters, with an introduction at the beginning of each chapter and a description of the events that inspired each article. The author concludes the compilation with a reflection on Crime Lab Report, the retired periodical, and the future of forensic science as the 21st Century unfolds. Intended for forensic scientists, prosecutors, defense attorneys and even students studying forensic science or law, this compilation provides much needed information on the topics at hand. Presents a comprehensive look 'behind the curtain' of the forensic sciences from the viewpoint of someone working within the field Educates practitioners and laboratory administrators, providing talking points to help them respond intelligently to questions and criticisms, whether on the witness stand or when meeting with politicians and/or policymakers Captures an important period in the history of forensic science and criminal justice in America

Data Report on the Littleton Quarry Blast Experiment 1988

Underground Excavation William R. Judd 1976

Technical Report

Biochemistry Laboratory Manual For Undergraduates Timea Gerczei Fernandez 2015-03-11 Biochemistry laboratory manual for undergraduates – an inquiry based approach by Gerczei and Pattison is the first textbook on the market that uses a highly relevant model, antibiotic resistance, to teach seminal topics of biochemistry and molecular biology while incorporating the blossoming field of bioinformatics. The novelty of this manual is the incorporation of a student-driven real real-life research project into the undergraduate curriculum. Since students test their own mutant design, even the most experienced students remain engaged with the process, while the less experienced ones get their first taste of biochemistry research. Inclusion of a research project does not entail a limitation: this manual includes all classic biochemistry techniques such as HPLC or enzyme kinetics and is complete with numerous problem sets relating to each topic.

Report on the Death of Vincent W. Foster, Jr Kenneth Starr 1997

Review of the International Narcotics Control Strategy Report United States. Congress. House. Committee on Foreign Affairs 1987

The Shock and Vibration Bulletin 1972

Technical Report - Civil Engineering Laboratory, Naval Construction Battalion Center, Port Hueneme, California Naval Civil Engineering Laboratory (Port Hueneme, Calif.) 1975

Report to the Test Director F.G. Hirsch 1957

Introduction to Bioinformatics using Action Labs Jean-Louis Lassez 2016-02-24 Bioinformatics is the application of computational techniques and tools to analyze and manage biological data. This book provides an introduction to bioinformatics through the use of Action Labs. These labs allow students to get experience using real data and tools to solve difficult problems. The book comes with supplementary software tools and papers. The labs use data from Breast Cancer, Liver Disease, Diabetes, SARS, HIV, Extinct Organisms, and many others. The book has been written for first or second year computer science, mathematics, and biology students. The supplementary software and papers can be found at <http://www.kibazen.com/bin>

Blast Crisis: New Insights for the Healthcare Professional: 2012 Edition 2012-12-10 Blast Crisis: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Blast Crisis in a compact format. The editors have built Blast Crisis: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Blast Crisis in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Blast Crisis: New Insights for the Healthcare Professional / 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

OAR Cumulative Index of Research Results United States. Air Force. Office of Aerospace Research 1963

OAR Quarterly Index of Current Research Results United States. Air Force. Office of Aerospace Research 1963

Peaceful Uses for Nuclear Explosives 1964

Nuclear Explosion Effects on Structures and Protective Construction U.S. Atomic Energy Commission 1961

Interior Ballistics of Guns United States. Army Materiel Command 1965

The Shock and Vibration Digest 1986

Nuclear Science Abstracts 1959-10