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Zur Berechnung von Bauteilen in hybrider Bauweise unter ballistischer Beanspruchung Trans Tech Publications Ltd
With the upsurge in terrorism in recent years and the possibility of accidental blast threats, there is growing interest in manufacturing blast ‘ hardened ’ structures and retrofitting blast mitigation materials to existing structures. Composites provide the ideal material for blast protection as they can be engineered to give different levels of protection by varying the reinforcements and matrices. Part one discusses general technical issues with chapters on topics such as blast threats and types of blast damage, processing polymer matrix composites for blast protection, standards and specifications for composite blast protection materials, high energy absorbing composite materials for blast resistant design, modelling the blast response of hybrid laminated composite plates and the response of composite panels to blast wave pressure loadings. Part two reviews applications including ceramic matrix composites for ballistic protection of vehicles and personnel, using composites to protect military vehicles from mine blasts, blast protection of buildings using FRP matrix composites, using composites in blast resistant walls for offshore, naval and defence related structures, using composites to improve the blast resistance of columns in buildings, retrofitting using fibre reinforced polymer composites for blast protection of buildings and retrofitting to improve the blast response of concrete masonry walls. With its distinguished editor and team of expert contributors, Blast protection of civil infrastructures and vehicles using composites is a standard reference for all those concerned with protecting structures from the effects of blasts in both the civil and military sectors. Reviews the role of composites in blast protection with an examination of technical issues, applications of composites and ceramic matrix composites Presents numerical examples of simplified blast load computation and an overview of the basics of high explosives includes important properties and physical forms Varying applications of composites for protection are explored including military and non-military vehicles and increased resistance in building columns and masonry walls

Test Methodology for Protection of Vehicle Occupants Against Anti-vehicular Landmine Effects Springer Nature
Terrorist attacks and other destructive incidents caused by explosives have, in recent years, prompted considerable research and development into the protection of structures against blast loads. For this objective to be achieved, experiments have been performed and theoretical studies carried out to improve our assessments of the intensity as well as the space-time distribution of the resulting blast pressure on the one hand and the consequences of an explosion to the exposed environment on the other.This book aims to enhance awareness on and understanding of these topical issues through a collection of relevant, Transactions of the Wessex Institute of Technology articles written by experts in the field. The book starts with an overview of key physics-based algorithms for blast and fragment environment characterisation, structural response analyses and structural assessments with reference to a terrorist attack in an urban environment and the management of its inherent uncertainties.A subsequent group of articles is concerned with the accurate definition of blast pressure, which is an essential prerequisite to the reliable assessment of the consequences of an explosion. Other papers are concerned with alternative methods for the determination of blast pressure, based on experimental measurements or neural networks. A final group of articles reports investigations on predicting the response of specific structural entities and their contents.The book concludes with studies on the effectiveness of steel-reinforced polymer in improving the performance of reinforced concrete columns and the failure mechanisms of seamless steel pipes used in nuclear industry.

Surviving the Ride **WIT Press**
Contains over 30 papers on the development and incorporation of ceramic materials for armor applications. Topics include impact and penetration modeling, dynamic and static testing to predict performance, damage characterization, non-destructive evaluation and novel material concepts.

Aerospace Materials and Material Technologies Springer Science & Business Media
This book gathers the latest advances, innovations, and applications in the field of computational engineering, as presented by leading international researchers and engineers at the 24th International Conference on Computational & Experimental Engineering and Sciences (ICCES), held in Tokyo, Japan on March 25-28, 2019. ICCES covers all aspects of applied sciences and engineering: theoretical, analytical, computational, and experimental studies and solutions of problems in the physical, chemical, biological, mechanical, electrical, and mathematical sciences. As such, the book discusses highly diverse topics, including composites; bioengineering & biomechanics; geotechnical engineering; offshore & arctic engineering; multi-scale & multi-physics fluid engineering; structural integrity & longevity; materials design & simulation; and computer modeling methods in engineering. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.

Design of Demining Machines Elsevier
Academic researchers who are working on the development of composite materials for ballistic protection need a deeper understanding on the theory of material behavior during ballistic impact. Those working in

industry also need to select proper composite constituents, to achieve their desired characteristics to make functional products. Composite Solutions for Ballistics covers the different aspects of ballistic protection, its different levels and the materials and structures used for this purpose. The emphasis in the book is on the application and use of composite materials for ballistic protection. The chapters provide detailed information on the various types of impact events and the complexity of materials to respond to those events. The characteristics of ballistic composites and modelling and simulation results will enable the reader to better understand impact mechanisms according to the theory of dynamic material behavior. A complete description of testing conditions is also given that includes sensors and high-speed devices to monitor ballistic events. The book includes detailed approaches and schemes that can be implemented in academic research into solutions for ballistic protection in both theoretical and experimental fields, to find solutions for existing and next generation threats. The book will be an essential reference resource for materials scientists and engineers, and academic and industrial researchers working in composite materials and textiles for ballistic protection, as well as postgraduate students on materials science, textiles and mechanical engineering courses. Discusses the fundamentals of impact response mechanisms and related solutions covering advantages and disadvantages for both existing and next generation applications Includes various methods for evaluation of ballistic constituents according to economic and environmental criteria, types of green ballistics are considered to enhance sustainable production of applications as well as hybrid composites from natural wastes Discusses selection methodologies for ballistic applications and detailed information on the use of textiles for reinforcement fabrication

Mechatronic Systems 2 Springer Nature

Maritime Technology and Engineering includes the papers presented at the 2nd International Conference on Maritime Technology and Engineering (MARTECH 2014, Lisbon, Portugal, 15-17 October 2014). The contributions reflect the internationalization of the maritime sector, and cover a wide range of topics: Ports; Maritime transportation; Inland navigat

Fractography of Advanced Ceramics III Springer Science & Business Media

High Interstitial Stainless Austenitic Steels is of interest to all engineers and resaerchers working with stainless steel, either at universities or R&D departments in Industry. The new applications described appeal to design engineers while procees engineers find interesting challenges. These novel steels enter more and more industrial applications. Their development is presented by this book in its entirety, starting from the electronic scale of components. This makes it particlularly attractive to Materials Scientists and Metal Physicists.

Applications of Finite Element Modeling for Mechanical and Mechatronic Systems Springer Science & Business Media

In constant effort to eliminate mine danger, international mine action community has been developing safety, efficiency and cost-effectiveness of clearance methods. Demining machines have become necessary when conducting humanitarian demining where the mechanization of demining provides greater safety and productivity. Design of Demining Machines describes the development and testing of modern demining machines in humanitarian demining. Relevant data for design of demining machines are included to explain the machinery implemented and some innovative and inspiring development solutions. Development technologies, companies and projects are discussed to provide a comprehensive estimate of the effects of various design factors and to proper selection of optimal parameters for designing the demining machines. Covering the dynamic processes occurring in machine assemblies and their components to a broader understanding of demining machine as a whole, Design of Demining Machines is primarily tailored as a text for the study of the fundamentals and engineering techniques involved in the calculation and design of demining machines. It will prove as useful resource for engineers, designers, researchers and policy makers working in this field.

Battle For Angola John Wiley & Sons

The book provides an introduction to the mechanics of composite materials, written for graduate students and practitioners in industry. It examines ways to model the impact event, to determine the size and severity of the damage and discusses general trends observed during experiments.

Asia-Pacific Defence Reporter Przemys ł aw Simi ń ski

Modern engineering practice requires advanced numerical modeling because, among other things, it reduces the costs associated with prototyping or predicting the occurrence of potentially dangerous situations during operation in certain defined conditions. Thus far, different methods have been used to implement the real structure into the numerical version. The most popular uses have been variations of the finite element method (FEM). The aim of this Special Issue has been to familiarize the reader with the latest applications of the FEM for the modeling and analysis of diverse mechanical problems. Authors are encouraged to provide a concise description of the specific application or a potential application of the Special Issue.

Advances in Ceramic Armor IX ScholarlyEditions

Dynamic Behavior of Materials, Volume 1: Proceedings of the 2012 Annual Conference on Experimental and Applied Mechanics represents one of seven volumes of technical papers presented at the Society for Experimental Mechanics SEM 12th International Congress & Exposition on Experimental and Applied Mechanics, held at Costa Mesa, California, June 11-14, 2012. The full set of proceedings also includes volumes on Challenges in Mechanics of Time -Dependent Materials and Processes in Conventional and Multifunctional Materials, Imaging Methods for Novel Materials and Challenging Applications, Experimental and Applied Mechanics, 2nd International Symposium on the Mechanics of Biological Systems and Materials 13th International Symposium on MEMS and Nanotechnology and, Composite Materials and the 1st International Symposium on Joining Technologies for Composites.

Dynamic Behavior of Materials, Volume 1 Lightweight Ballistic Composites

Major Hal Skaarup has woven together an informative and detailed synopsis of the carefully preserved and restored armoured fighting vehicles on display in Canada. He highlights the importance of these upon key turning points in history when these AFVs were in use as tools of war at home and overseas. We often associate the evolution of military prowess with the advancement of sophisticated technology. Major Skaarup's descriptions of Canadian armour as it evolved to the level it has today reveals that military planners have had to be continuously creative in adapting to the changes in modern combat. They had to devise many intricate techniques, tactics and procedures to overcome the insurgents and opposition forces faced in Afghanistan and future overseas missions where Canadian armour will be brought into play. This guide book will show the interested reader where to find examples of the historical armour preserved in Canada, and perhaps serve as a window on how Canada ' s military contribution to safety and security in the world has evolved.

BALLISTICS 2016 Springer Science & Business Media

Lightweight Ballistic Composites: Military and Law-Enforcement Applications, Second Edition, is a fully revised and updated version of this informative book that explores the many changes in composite materials technology that have occurred since the book's first release in 2008, especially the type of commercial products used by armed forces around the world. Some changes can be attributed to the wars in Iraq and Afghanistan, whereas others are due to massive investment by private companies to neutralize the ever-increasing global threats and fulfill the military's appetite for lighter materials. Soldiers are now better protected against new ballistic threats and the overall weight of body protection has been reduced, while comfort has increased. New military vehicles are no longer purely armored with steel, and are instead lined with lightweight ballistic materials that increase the distance military vehicles can travel without refueling and also improve maneuverability. The book considers all aspects of lightweight ballistic composites from fiber manufacturing to commercial products and testing. Chapters also cover the many uses of lightweight ballistic composites in the military and law-enforcement industries. It will be an invaluable reference for ballistic composite design engineers, product development engineers, and all those involved in promoting new products for both defense and the law-enforcement industry. Gives comprehensive coverage on all aspects of lightweight ballistic composites, from fiber manufacturing, to commercial products and testing Discusses the wider applications of lightweight ballistic composites in military and law-enforcement industries Edited by a highly respected industry expert with over thirty years ' experience developing

lightweight composite ballistic materials and products

A Practical Introduction to Homeland Security and Emergency Management 30 Degrees South Publishers

This book presents the proceedings of the “ International Conference of the Polish Society of Biomechanics – BIOMECHANICS 2018 ” held in Zielona G ó ra, Poland from September 5 to 7, 2018, and discusses recent research on innovations in biomechanics. It includes a collection of selected papers in all key areas of biomechanics, including cellular, molecular, neuro and musculoskeletal biomechanics, as well as sport, clinical and rehabilitation biomechanics. These themes are extremely important in the development of engineering concepts and methods to provide new medical solutions, especially in the context of an ageing population. Presenting the latest technical advances and research methods used in clinical biomechanics, this book is of interest to scientists as well as junior researchers and students of interdisciplinary fields of engineering, medical, and sports sciences.

Special Concrete and Composites 2016 CRC Press

Vinyl Compounds—Advances in Research and Application: 2013 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about ZZZAdditional Research in a concise format. The editors have built Vinyl Compounds—Advances in Research and Application: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about ZZZAdditional Research in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Vinyl Compounds—Advances in Research and Application: 2013 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/.

Armour SAGE Publications

Following the publication of Al Venter ’ s successful Portugal ’ s Guerrilla Wars in Africa - shortlisted by the New York Military Affairs Symposium ’ s 'Arthur Goodzeit Book Award for 2013' - his Battle for Angola delves still further into the troubled history of this former Portuguese African colony. This is a completely fresh work running to almost 600 pages including 32 pages of color photos, with the main thrust on events before and after the civil war that followed Lisbon ’ s over-hasty departure back to the metr ó pole. There are also several sections that detail the role of South African mercenaries in defeating the rebel leader Dr Jonas Savimbi (considered by some as the most accomplished guerrilla leader to emerge in Africa in the past century). There are many chapters that deal with Pretoria ’ s reaction to the deteriorating political and military situation in Angola, the role of the Soviets and mercenaries in the political transition, as well as the civil war that followed. With the assistance of several notable military authorities he elaborates in considerable detail on South Africa ’ s 23-year Border War, from the first guerrilla incursions to the last. In this regard he received solid help from the former the head of 4 Reconnaissance Regiment, Colonel Douw Steyn, who details several cross-border Recce strikes, including the sinking by frogmen of two Soviet ships and a Cuban freighter in an Angolan deepwater port. Throughout, the author was helped by a variety of notable authorities, including the French historian Dr Ren é P é lissier and the American academic and former naval aviator Dr John (Jack) Cann. With their assistance, he covers several ancillary uprisings and invasions, including the Herero revolt of the early 20th century; the equally troubled Ovambo insurrection, as well as the invasion of Angola by the Imperial German Army in the First World War. Former deputy head of the South African Army Major General Roland de Vries played a seminal role. It was he - dubbed ‘ South Africa ’ s Rommel ’ by his fellow commanders - who successfully nurtured the concept of ‘ mobile warfare ’ where, in a succession of armored onslaughts ‘ thin-skinned ’ Ratel Infantry Fighting Vehicles tackled Soviet main battle tanks and thrashed them. There is a major section on South African Airborne – the ‘ Parabats ’ – by Brigadier-General McGill Alexander, one of the architects of that kind of warfare under Third World conditions. Finally, the role of Cuban Revolutionary Army receives the attention it deserves: officially there were almost 50,000 Cuban troops deployed in the Angolan war, though subsequent disclosures in Havana suggest that the final total was much higher.

Advances in Ceramic Armor DEStech Publications, Inc

The second volume of the series is devoted to applications of mechatronics in material processing and robotics. Both classical machining methods, such as extrusion, forging and milling, and modern ones, such as plasma and ultrasonic machining, are analyzed. An extensive part covers the modeling of these processes, also from a phenomenological point of view. The study analyzes the issues related to robotics in various technological processes as well.

A Preliminary Comparison Between TNT and PE4 Landmines MDPI

This volume provides a one-stop resource, compiling current research on ceramic armor and addressing the challenges facing armor manufacturers. It is a collection of papers from The American Ceramic Society s 32nd International Conference on Advanced Ceramics and Composites, January 27-February 1, 2008. Topics include novel materials concepts for both vehicle and body armors, transparent ceramics for impact resistance, and more. This is a valuable, up-to-date resource for researchers in industry, government, or academia who are working with ceramic armor.

Biomechanics in Medicine and Biology John Wiley & Sons

These proceedings gather outstanding papers presented at the China SAE Congress 2021, held on Oct. 19-21, Shanghai, China. Featuring contributions mainly from China, the biggest carmaker as well as most dynamic car market in the world, the book covers a wide range of automotive-related topics and the latest technical advances in the industry. Many of the approaches in the book will help technicians to solve practical problems that affect their daily work. In addition, the book offers valuable technical support to engineers, researchers and postgraduate students in the field of automotive engineering.

Wojskowe Pojazdy Ko ł owe CRC Press

A Practical Introduction to Homeland Security and Emergency Management: From Home to Abroad offers a comprehensive overview of the homeland security field, examining topics such as counter-terrorism, border and infrastructure security, and emergency management. Authors Bruce Newsome and Jack Jarmon take a holistic look at the issues and risks, their solutions, controls, and countermeasures, and their political and policy implications. They also demonstrate through cases and vignettes how various authorities, policymakers and practitioners seek to improve homeland security. The authors evaluate the current practices and policies of homeland security and emergency management and provide readers with the analytical framework and skills necessary to improve these practices and policies.