Nato Stanag 4569 Edition

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Design Against Blast Helion and Company
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.

Fifth European Workshop on Structural Health Monitoring 2010 Routledge
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.

A Practical Introduction to Security and Risk Management Springer Nature
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.

Aerospace Materials and Material Technologies Woodhead Publishing
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.

Test Methodology for Protection of Vehicle Occupants Against Anti-vehicular Landmine Effects SAGE Publications
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.

Vinyl Compounds—Advances in Research and Application: 2013 Edition MDPI
This book presents the proceedings of the "International Conference of the Polish Society of Biomechanics – BIOMECHANICS 2018" held in Zielona Góra, 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.

Advances in Ceramic Armor 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.

A Practical Introduction to Homeland Security and Emergency Management DEStech Publications, Inc
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.

Reliability and Robust Design in Automotive Engineering 2006 Springer Nature
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.

Applications of Finite Element Modeling for Mechanical and Mechatronic Systems Springer
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/.

"Ironsides" Przemys?aw Simi?ski
This book has been motivated by an urgent need for designing and implementation of innovative control algorithms and systems for tracked vehicles. Nowadays the unmanned vehicles are becoming more and more common. Therefore there is a need for innovative mechanical constructions capable of adapting to various applications regardless the ground, air or water/underwater environment. There are multiple various activities connected with tracked vehicles. They can be distributed among three main groups: design and control algorithms, sensoric and vision based in-formation, construction and testing mechanical parts of unmanned vehicles. Scientists and researchers involved in mechanics, control algorithms, image processing, computer vision, data fusion, or IC will find this book useful.

IED-dreigingen voor voertuigen - achtergronden en ontwikkelingen CRC Press
Ceramic Engineering and Science Proceedings Volume 34, Issue 5 - Advances in Ceramic Armor IX A collection of 14 papers from The American Ceramic Society's 37th International Conference on Advanced Ceramics and Composites, held in Daytona Beach, Florida, January 27-February 1, 2013.This issue includes papers presented in the Armor Ceramics Symposium on topics such as Manufacturing; High-Rate Real-Time Characterization; Microstructural Design; Nondestructive Characterization; and Phenomenology and Mechanics of Ceramics Subjected to Ballistic Impact.

Battle For Angola Lightweight Ballistic Composites
This book is a collection of high quality research and review papers submitted to the 1st World Conference on Advanced Materials for Defense (AUXDEFENSE 2018). A wide range of topics related to the defense area such as ballistic protection, impact and energy absorption, composite materials, smart materials and structures, nanomaterials and nano structures, CBRN protection, thermoregulation, camouflage, auxetic materials, and monitoring systems is covered. Written by the leading experts in these subjects, this work discusses both technological advances in terms of materials as well as product designing, analysis as well as case studies. This volume will prove to be a valuable resource for researchers and scientists from different engineering disciplines such as materials science, chemical engineering, biological sciences, textile engineering, mechanical engineering, environmental science, and nanotechnology.

Asia-Pacific Defence Reporter Springer Science & Business Media
Lightweight Ballistic CompositesWoodhead Publishing
Blast Protection of Civil Infrastructures and Vehicles Using Composites DEStech Publications, Inc

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.

Armour Springer Science & Business Media

Mine-protected and mine-resistant, ambush-protected (MRAP) vehicles are today standard in the US, most major western armed forces and many other armies as a result of the wars in Iraq and Afghanistan. The South African Army was already routinely using mine-protected armored personnel carriers and patrol vehicles forty years ago even if they looked primitive and ungainly. A few years later, the South African Army had reached the stage where it could deploy entire combat groups into battle zones equipped with only mine-protected vehicles, including their ambulances and supply trucks. By then the mine-protected vehicles had also become effective for use in combat, rather than just protected transport, the Casspir being the chief example. More to the point, they saved countless soldiers and policemen from death or serious injury, and the basic concepts now live on in the various MRAP types in service today. The valuable lessons learned by the South Africans with their early designs of these combat-proven vehicles has led the country to become one of the global leaders in the design of MRAPs which are locally manufactured and exported around the world. Surviving the Ride is a fascinating pictorial account featuring more than 120 of these unique South African-developed vehicles, spanning a forty-year period, with over 280 photographs, many of which are previously unpublished.

Impact Engineering of Composite Structures CRC Press

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

Wojskowe Pojazdy Ko?owe Trans Tech Publications Ltd

Collection of papers from the "Reliability & Robust Design in Automotive Engineering" session of the SAE 2006 World Congress, held April 3-6 in Detroit, Michigan.

Composite Solutions for Ballistics Springer Nature

Final Report of HFM-090 Task Group 25, created in response to the NATO/RTO HFM ET-007, which identified the lack of suitable information for injury assessment of the anti-vehicle mine threat. Furthermore, the task group was asked to help the STANAG 4569 Team of Experts to develop an injury assessment methodology for the qualification of light-armoured and logistic vehicles (blast) landmines protection systems. Injury criteria, tolerance levels and measurement methods were proposed to assess the most vulnerable body regions to a blast mine strike under a vehicle; tolerance levels established for these body regions are considered to represent low risk of life-threatening and disabling injuries.

A Preliminary Comparison Between TNT and PE4 Landmines Springer Science & Business Media

Selected, peer reviewed papers from the 13th International Conference “Special Concrete and Composite 2016”, October 13-14, 2016, Skalský Dv?r, Czech Republic