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Selected, peer reviewed papers
from the 13th International
Conference "Special Concrete

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and Composite 2016", October
13-14, 2016, Skalský Dvůr,
Czech Republic

Following the publication of Al
Venter's successful Portugal's
Guerrilla Wars in Africa -
shortlisted by the New York

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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

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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 metrópole. There are also

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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

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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

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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

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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

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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 René Pélissier and the

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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

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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

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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-

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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

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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

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deployed in the Angolan war, though subsequent disclosures in Havana suggest that the final total was much higher.

Die vorliegende Arbeit wendet sich an Wissenschaftler und Experten in Forschung und

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Entwicklung, sowohl im universitären als auch im industriellen Umfeld. Sie gibt Einblick in die Methodik der Schutzentwicklung, wobei neben der experimentellen Durchführung auch die

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Modellierung mit Hilfe der numerischen Simulation betrachtet wird. Die Studie stellt Untersuchungen zu hybriden Schutzaufbauten aus metallischen Legierungen, thermoplastischen Polymeren

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sowie endlos-
glasfaserverstärkten
Duroplasten vor. Diese werden
unter quasistatischen sowie
dynamischen Bedingungen und
unter Berücksichtigung
verschiedener Umwelteinflüsse

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untersucht und charakterisiert.
Eine Bewertung hybrider
Schichtaufbauten unter
ballistischer Beanspruchung
erfolgt mit dem FSP 20 mm
nach STANAG 4569. Hierbei
kommen neuartige

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Messmethoden zur
Kennwertermittlung aus den
Beschussversuchen zum
Einsatz. Die Modellierung der
Werkstoffe mit Hilfe der
numerischen Simulation
ermöglicht es, unterschiedliche

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Lastfälle abzubilden und zu bewerten. Kurzzeitdynamische Effekte wie Stoßwellenphänomene und hohe Partikelgeschwindigkeiten werden dabei berücksichtigt. Fragestellungen im Hinblick auf

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das Verhalten von
Polymerwerkstoffen unter
hohen Dehnraten werden
ebenfalls diskutiert. Der Leser
kann so neue Aspekte der
Werkstoffmodellierung
entdecken und wird in die Lage

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versetzt, moderne
Schutzaufbauten mit
gesteigerter Performance zu
entwickeln./div/divdivbr
In constant effort to eliminate
mine danger, international mine
action community has been

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developing safety, efficiency and cost-effectiveness of clearance methods. Demining machines have become necessary when conducting humanitarian demining where the mechanization of demining

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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

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demining machines are included to explain the machinery implemented and some innovative and inspiring development solutions. Development technologies, companies and projects are

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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

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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

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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

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working in this field.
Aerospace Materials and
Material Technologies
Selected, Peer Reviewed Papers
from the International
Conference on Fractography of
Advanced Ceramics Held in

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Stará Lesná, Slovakia,
September, 7-10, 2008

Biomechanics in Medicine and
Biology

Advances in Ceramic Armor IV
Applications of Finite Element
Modeling for Mechanical and

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Mechatronic Systems
Development, Analysis and
Applications

*This book presents the
proceedings of the
"International Conference of
the Polish Society of*

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*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*

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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

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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

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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.

Academic researchers who are

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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

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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

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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

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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

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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

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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

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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

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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

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engineering courses. Discusses the fundamentals of impact response mechanisms and related solutions covering advantages and disadvantages for both existing and next generation applications

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Includes various methods for evaluation of ballistic constituents according to economic and environmental criteria, types of green ballistics are considered to enhance sustainable

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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

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fabrication

Das Rote Heft widmet sich den technischen Möglichkeiten, mit denen Vegetationsbrände sicher, schnell und effektiv bekämpft werden können. Der Autor bietet eine vollständige

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*Übersicht von einfachen
Handwerkzeugen über
traditionelle und innovative
Löschtechniken bis hin zu
verschiedenen Löschmitteln.
Neben der Brandbekämpfung
werden auch technische*

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*Möglichkeiten für den
Eigenschutz, beispielsweise
durch erweiterte Persönliche
Schutzausrüstung, vorgestellt.
Zudem wird auf die
besonderen Anforderungen an
die Einsatzfahrzeuge der*

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*Feuerwehr eingegangen.
Hinweise auf mögliche
Erweiterungen der
bestehenden Technik, sinnvolle
neue Konzepte sowie
unterstützende Technik aus
dem forst- und*

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*landwirtschaftlichen Bereich
runden den Titel ab.*

*Original research from around
the world on weapons-grade
projectiles, warheads, missiles,
guns and their effects on
target materials*New

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*information on shaped
charges, fire, control
strategies, simulation, blast
resistance, non-lethal systems
and more*190 original
presentations in two printed
volumes, plus searchable CD

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The first part of this 2-volume set, part of an ongoing series, presents previously unpublished research on the design and modeling of ballistic devices ranging from shells to missiles, including

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explosives, propellants and internal components. The second part investigates the effects of ballistic penetrants on a variety of targets, including human models, as well as hard targets and

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diverse armors made from engineered fibers, ceramics, metal alloys and concrete. Data is included on the modeling and testing of novel devices, explosives and shielding strategies. Papers in

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this text were presented at a symposium organized by the National Defense Industrial Association with the International Ballistics Society. The CD-ROM displays figures and illustrations in articles in

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full color along with a title screen and main menu screen. Each user can link to all papers from the Table of Contents and Author Index and also link to papers and front matter by using the global bookmarks

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which allow navigation of the entire CD-ROM from every article. Search features on the CD-ROM can be by full text including all key words, article title, author name, and session title. The CD-ROM has Autorun

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feature for Windows 2000 with Service Pack 4 or higher products along with the program for Adobe Acrobat Reader with Search 11.0. One year of technical support is included with your purchase of

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this product.

Lightweight Ballistic

Composites

The End of the Cold War in

Africa c 1975-89

Materials, Theory, and Design

A Pictorial History of South

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*African-Manufactured
Armoured Vehicles
A Practical Introduction to
Homeland Security and
Emergency Management
Jane's International Defense
Review*

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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

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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,

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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-

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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/>.

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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

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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

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of diverse mechanical problems. Authors are encouraged to provide a concise description of the specific application or a potential application of the Special Issue.

Terrorist attacks and other destructive incidents caused by explosives have, in recent years, prompted

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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

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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

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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

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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

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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

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steel-reinforced polymer in improving the performance of reinforced concrete columns and the failure mechanisms of seamless steel pipes used in nuclear industry.

Ballistic composites need to be lightweight and durable as well as exhibiting high impact resistance and

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damage tolerance. This important book reviews these requirements, how the materials used for ballistic composites meet them and their range of applications. After an introductory chapter, Lightweight ballistic composites is split into two main sections. The first part of the book

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explores material requirements and testing. There are chapters on bullets and bullet fragments, material responses to ballistic impact, standards and specifications, modelling and test methods. Part Two reviews the range of materials used, production methods and applications.

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Topics discussed include high-performance ballistic fibres and ceramics, non-woven ballistic and prepreg composites, and their uses in body armour, vehicle and aircraft protection. This major book is the first of its kind to give a comprehensive review of the current use of lightweight

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ballistic composites in both military and law-enforcement applications. It is an invaluable reference for all those involved in personnel and vehicle protection in defence and police forces around the world. Reviews the current use of lightweight ballistic composites in both military and law-enforcement

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application An authoritative overview of the range of materials used, production methods and applications Explores material requirements and testing

Volume 2: Aerospace Material Technologies

From Home to Abroad

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"Ironsides"

Military Wheeled Vehicles

High Interstitial Stainless Austenitic
Steels

IDR.

This volume provides a one-
stop resource, compiling
current research on

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ceramic armor and
addressing the challenges
facing armor
manufacturers. It is a
collection of papers from
The American Ceramic
Society s 32nd

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International Conference
on Advanced Ceramics and
Composites, January
27-February 1, 2008.
Topics include novel
materials concepts for
both vehicle and body

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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

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working with ceramic armor.

Mine-protected and mine-resistant, ambush-protected (MRAP) vehicles are today standard in the US, most major western

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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

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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

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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-

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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

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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

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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

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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

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vehicles, spanning a forty-year period, with over 280 photographs, many of which are previously unpublished.

The Army often uses vehicles informally

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classified as ultra-light tactical mobility (UTM). This report assesses the demands, requirements, current ad hoc capabilities, and key considerations for

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developing and sustaining established Army UTM fleets.

Major Hal Skaarup has woven together an informative and detailed synopsis of the carefully

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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

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tools of war at home and overseas. We often associate the evolution of military prowess with the advancement of sophisticated technology. Major Skaarup's

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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

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modern combat. They had to devise many intricate techniques, tactics and procedures to overcome the insurgents and opposition forces faced in Afghanistan and future

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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

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preserved in Canada, and perhaps serve as a window on how Canada's military contribution to safety and security in the world has evolved.

Applications in Material

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Handling Processes and
Robotics
Structures Under Shock and
Impact IX
29th International
Symposium on Ballistics
Design of Demining

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Machines

Load Definition &

Structural Response

Assessing Conventional

Army Demands and

Requirements for Ultra-

Light Tactical Mobility

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The second volume of the series is devoted to applications of mechatronics in material processing and robotics. Both classical machining methods, such as

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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

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from a phenomenological point of view. The study analyzes the issues related to robotics in various technological processes as well. The shock and impact

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behaviour of structures is a difficult area, not only because of its obvious time-dependent aspects, but also because of the difficulties in specifying the external dynamic

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***loading characteristics
and in obtaining the full
dynamic properties of
materials. This book
examines the interaction
between blast pressure
and surface or***

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***underground structures,
whether the blast is from
civilian, military, dust and
natural explosions, or any
other source. Including
papers from the Ninth
International Conference***

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on Structures Under Shock and Impact, the book will be of significant interest to engineers from civil, military, nuclear, offshore, aeronautical, transportation and other

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backgrounds. Featured topics include: Impact and Blast Loading Characteristics; Protection of Structures from Blast Loads; Missile Penetration and

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***Explosion; Air Craft and
Missile Crash Against
High-rise Buildings;
Seismic Engineering
Applications; Energy
Absorbing Issues; Fluid
Structure Interaction;***

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***Behaviour of Structural
Concrete; Behaviour of
Steel Structures;
Structural Behaviour of
Composites; Material
Response to High Rate
Loading; Structural***

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***Crashworthiness; Impact
Biomechanics; Structural
Serviceability under
Impact Loading;
Microdynamics;
Interaction between
Computational and***

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***Experimental Results;
Software for Shock and
Impact.***

***Contains over 30 papers
on the development and
incorporation of ceramic
materials for armor***

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applications. Topics include impact and penetration modeling, dynamic and static testing to predict performance, damage characterization, non-

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***destructive evaluation
and novel material
concepts.***

***This book serves as a
comprehensive resource
on various traditional,
advanced and futuristic***

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***material technologies for
aerospace applications
encompassing nearly 20
major areas. Each of the
chapters addresses
scientific principles
behind processing and***

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production, production details, equipment and facilities for industrial production, and finally aerospace application areas of these material technologies. The

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***chapters are authored by
pioneers of industrial
aerospace material
technologies. This book
has a well-planned layout
in 4 parts. The first part
deals with primary metal***

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***and material processing,
including nano
manufacturing. The
second part deals with
materials
characterization and
testing methodologies***

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and technologies. The third part addresses structural design. Finally, several advanced material technologies are covered in the fourth part. Some key advanced topics such

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***as “Structural Design by
ASIP”, “Damage
Mechanics-Based Life
Prediction and Extension”
and “Principles of
Structural Health
Monitoring” are dealt***

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***with at equal length as
the traditional aerospace
materials technology
topics. This book will be
useful to students,
researchers and
professionals working in***

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***the domain of aerospace
materials.***

Mechatronic Systems 2

THERMEC 2006

***Supplement to THERMEC
2006, 5th International
Conference on Processing***

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***and Manufacturing of
Advanced Materials, July
4-8, 2006, Vancouver,
Canada
Advanced Materials for
Defense
Advances in Ceramic***

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Armor IX
Index of Specifications
and Standards

This book has been motivated by an urgent need for designing and implementation of innovative control algorithms and systems for tracked

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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

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connected with tracked vehicles. They can be distributed among three main groups: design and control algorithms, sensoric and vision based information, construction and testing mechanical parts of unmanned vehicles. Scientists and researchers involved in mechanics, control

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algorithms, image processing, computer vision, data fusion, or IC will find this book useful.

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

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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

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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

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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

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*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*

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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

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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

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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

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Presents high-level research on various caliber guns, cannon, mortars, drones, warheads, shells, bullets, drills and other launchers and penetrants, as well as their impact effects on natural and designed materials, including large-scale targets and body armors Provides new modeling and

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test data on projectile design and guidance, propellants, charges and explosives for military, aerospace and civil engineering applications Over 250 presentations in two printed volumes, plus searchable CD This book makes available original ballistics technology from around the world on a wide

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variety of weapons and their effects, including the design and trajectory/stability control of dozens of projectiles ranging from shells to missiles. The book's authors discuss the efficacy and development of propellants, munitions, and igniters and offer new approaches for

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modeling and testing. Also investigated in Volume 1 are shielding and protection strategies for individual persons and other targets. Volume 2 offers research on the mechanical behavior of multiple types of explosives, as well as impact and penetration data from projectile effects

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on surfaces ranging from natural phenomena such as water and soils to metallic plating and material-engineered armors. Papers in these volumes were presented at a conference organized by the National Defense Industrial Association (NDIA) with the International Ballistics Society.

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and manage security in the key domains of operations, logistics, physical sites, information, communications, cyberspace, transport, and personal levels.

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Pojazdy wojskowe są specyficzną grupą pojazdów mechanicznych. Ich specyfika wynika przede wszystkim z funkcji, jaką mają pełnić w ramach zadań stawianych jednostkom

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wojskowym. W porównaniu do pojazdów komercyjnych w konstrukcji wojskowych pojazdów kołowych można wskazać kilka zasadniczych różnic, które mają wpływ na bezpieczeństwo ruchu, są to

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przede wszystkim: wysoko
położony środek masy, duża
masa własna bliska
dopuszczalnej masy
całkowitej, większe momenty
bezwładności bryły
nadwozia, ogumienie

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zazwyczaj o terenowym bieżniku, często brak systemów wspomagania bezpieczeństwa biernego i aktywnego, dodatkowy sprzęt montowany na zewnątrz bryły nadwozia,

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mniejsza powierzchnia okien.
Nadto należy wspomnieć, że
różnice pojawiają się ze
względu na konieczność
zapewniania możliwie
wysokiej ochrony załogi
(balistyczna i

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przeciwminowa) i wysokich parametrów technicznych związanych z pokonywaniem terenu. Dokonując porównania podwozi bazowych wojskowych pojazdów kołowych i

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wykonanych z ich
wykorzystaniem wersji
specjalnych można dostrzec
kierunki zmian takich, jak:
dodatkowe opancerzenie,
dodatkowe urządzenia
pozwalające na wykonanie

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zadań funkcjonalnych, czy też więcej osprzętu, w tym mocowanego na zewnątrz. Budowa wersji specjalnych powoduje więc przesunięcie położenia środka masy oraz wzrost masowych

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momentów bezwładności.
Procesy budowania nowego
pojazdu wojskowego jest
procesem złożonym i
długotrwałym, często
trwającym kilkanaście lat.
Wszelkie próby wdrożenia

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nowego pojazdu określone na okres 3-4 letni są z góry skazane na niepowodzenie. Często kilkanaście miesięcy potrafią trwać różnego rodzaju uzgodnienia o charakterze formalnym.

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Kolejne kilkanaście powinno się wykorzystywać na intensywny proces badawczy na różnych etapach zaawansowania prac. Jest to trend światowy najlepszych producentów i

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najnowocześniejszych armii. Deklaracje szybkiego wdrożenia sugerują, że mamy do czynienia z integracją zespołów głównie zewnętrznego źródła. Sam fakt wykorzystania zespołów

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pochodzących od renomowanych producentów światowych nie gwarantuje dobrej jakości pojazdu wojskowego. Dlatego właściwym podejściem do rozwoju pojazdów

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wojskowych jest budowanie nowocześniejszych i kompatybilnych zespołów i podzespołów. Prowadzenie rozwoju na etapie „składowych” pojazdu gwarantuje jego wysoką

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jakość oraz funkcjonalność po integracji. W kwestii prowadzenia dialogów i uzgodnień branżowych niezwykle ważne staje się używanie tożsamych pojęć. Różne pojmowanie tego

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samego określenia prowadzi do nieporozumień, a nawet niepowodzenia projektu.

Dlatego część książki (rozdział 1. Wstęp 16 drugi) poświęcono pojęciom podstawowym, klasyfikacjom

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i wymaganiom. Również kwestia bezpieczeństwa pojazdu wojskowego powinna być widziana odmiennie i znacznie szerzej niż w przypadku pojazdów komercyjnych. Ta

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problematyka została przybliżona w rozdziale trzecim. Odpowiednią realizację swojej funkcji przez pojazd wojskowy zapewnia spełnienie wymagań stawianych przez

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użytkownika. Koniecznym do tego jest precyzyjne ich określenie i sparametryzowanie. Przydatne w tym celu mogą być treści dotyczące charakterystyki taktyczno-

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technicznej zawarte w rozdziale czwartym oraz omówienie głównych układów i systemów zaprezentowane w rozdziale piątym. Wykonanie kluczowych zespołów może

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się bardzo często wiązać z zupełnie innym wykonaniem lub rozwiązaniem technicznym niż ma to miejsce w pojazdach cywilnych. Współcześnie pojazdy wojskowe muszą być

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przystosowane do transportu różnorodnymi jego środkami. W ten sposób zostaje zwiększona ich mobilność operacyjna i strategiczna. Wiąże się to jednak z kolejnymi wymaganiami do

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spełnienia. Tę szeroką problematykę przedstawiono w szóstym rozdziale.

Wdrażanie pojazdów jako SpW ma swoje określone procedury. Procedury te nie pozostają bez wpływu na

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bezpieczeństwo pojazdu
(rozdział siódmy). W procesie
wdrażania pojazdu
wojskowego, szczególnie po
niezbędnym okresie, kiedy
definiowane są potrzeby oraz
wymagania, większego

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znaczenia nabiera faza koncepcyjna. Kluczowym staje się przyjęcie ogólnej koncepcji realizacji i dalszego prowadzenia projektu. W ciągu szeregu lat ciągle aktualne jest ścieranie

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się pewnych koncepcji ogólnych. Te dylematy zostały, łącznie z adekwatnymi przykładami, zaprezentowane w rozdziale ósmym. Specyficzna konstrukcja pojazdów

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wojskowych, stawiane im
wymagania oraz tryb
wdrażania powodują, że cały
cykl życia pojazdu
wojskowego nabiera
specjalnego kształtu
(rozdział dziewiąty). W

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książce uwzględniono także aktualne trendy w dziedzinie diagnostyki oraz eksploatacji pojazdów wojskowych (rozdziały dziesiąty, jedenasty oraz dwunasty).
Możliwość wykonywania

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zadań z odpowiednim stopniem efektywności wiąże się z warunkami pracy załogi. Ergonomia wojskowych pojazdów kołowych ma przed sobą aktualnie duże wyzwania

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związane z: potrzebą
zwiększenia poziomu
ochrony, większą ilością
systemów specjalnych,
większą ilością wyposażenia
indywidualnego,
zwiększeniem parametrów

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antropomorficznych, długim czasem przebywanie we wnętrzu (rozdział trzynasty). Na potrzeby Sił Zbrojnych funkcjonują systemy normalizacji i certyfikacji, które mają duży wpływ na

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ostateczne projekty pojazdów (rozdziały piętnasty i szesnasty). Udział Polski w operacji na terenie Afganistanu był bardzo silnym bodźcem dla rozwoju wojskowych technologii w

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dziedzinie pojazdów. Pojawiły się nowe 1. Wstęp 17 rozwiązania koncertujące się na poprawie efektywności pojazdów, zwłaszcza w zakresie bezpieczeństwa. Analizę tych tendencji

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przedstawiono w rozdziale siedemnastym. Znaczną część książki, obejmującą rozdziały od osiemnastego do dwudziestego trzeciego, zajmują przykłady rozwiązań różnych typów pojazdów.

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Starano się, by opisy były
możliwie szczegółowe, gdyż
pozwala to na właściwe
wyodrębnienie różnic i
specyfiki wojskowych
pojazdów kołowych na tle
innych rozwiązań

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komercyjnych pojazdów specjalnych. W kończącym książkę rozdziale dwudziestym czwartym przeanalizowano obszary ryzyka występujące w procesie wdrażania pojazdów

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