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Smart Textiles and Their Applications

Advances in Military Textiles and Personal Equipment

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HESTER JAMARI

Smart Textiles and Their
Applications

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Smart Textiles and Their
Applications
Woodhead
Publishing

**Advances in Military
Textiles and Personal
Equipment**

National
Geographic Society
A simple look at the Rocky
Mountains, a chain of
mountains that starts in
Canada and ends in
Texas.

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Elsevier
Smart Textiles and Their
Applications outlines the
fundamental principles of
applied smart textiles,
also reporting on recent
trends and research
developments. Scientific
issues and proposed
solutions are presented in
a rigorous and
constructive way that fully
presents the various
results, prototypes, and

case-studies obtained
from academic and
industrial laboratories
worldwide. After an
introduction to smart
textiles and their
applications from the
editor, Part One reviews
smart textiles for medical
purposes, including their
use in health monitoring,
treatment delivery, and
assistive technologies.
Part Two covers smart
textiles for transportation
and energy, with chapters
covering smart textiles for
the monitoring of
structures and processes,
as well as smart textiles
for energy generation.
The final section considers
smart textiles for
protection, security, and
communication, and
includes chapters
covering electrochromic
textile displays, textile
antennas, and smart
materials for personal
protective equipment.
Scientific issues and
proposed solutions are
presented in a rigorous
and constructive way
regarding various results,
prototypes, and case-
studies obtained from
academic and industrial

laboratories worldwide
Useful for researchers and
postgraduate students,
and also for existing
companies and start-ups
that are developing
products involving smart
textiles Authored and
edited by an international
team who are experts in
the field ensure
comprehensive coverage
and global relevance
Woodhead Publishing
The right clothing and
equipment is of vital
importance to the survival
and effectiveness of
military personnel.
Advances in military
textiles and personal
equipment summarises
key research on the
design, manufacture and
applications of military
textiles. Beginning with an
overview of design issues,
part one explores
anthropometric methods,
psychological, colour and
camouflage issues related
to the successful design
of military textiles.
Materials and design
issues in military helmets,
footwear and hand wear
are also reviewed. Part
two goes on to consider
applications of particular

types of military clothing and equipment, including optimisation of body armour design, high performance ballistic protection using polymer nanocomposite technology as well as advances in materials and modelling of chemical, biological, radiological and nuclear protective clothing. Finally, Advances in military textiles and personal equipment looks specifically at designing load carriage and advanced hydration

systems for military personnel. With its distinguished editor and international team of expert contributors, Advances in military textiles and personal equipment is an invaluable resource for all those working in the design, manufacture and production of military clothing and equipment, as well as for the defence industry itself. Summarises key research on the design, manufacture and

applications of military textiles Begins with an overview of the issues related to the successful design of military textiles and reviews materials and design issues in military helmets, footwear and hand wear Sections consider applications of particular types of military clothing and equipment, including optimisation of body armour design, and discusses advances in materials and modelling of chemical, biological, radiological and nuclear protective clothing

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