

1. Record Nr.	UNINA9910845100003321
Autore	Namburi Eswara Prasad
Titolo	Novel Defence Functional and Engineering Materials (NDFEM) Volume 2 : Engineering Materials for Defence Applications / / edited by Eswara Prasad Namburi, R. J. H. Wanhill, Dipak Kumar Setua
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819997954 981999795X
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (342 pages)
Collana	Indian Institute of Metals Series, , 2509-6419
Altri autori (Persone)	WanhillR. J. H SetuaDipak Kumar
Disciplina	620.11
Soggetti	Materials Materials - Analysis Building materials Bionics Polymers Materials Engineering Materials Characterization Technique Structural Materials Bioinspired Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Polymer Matrix Composites for Defence Applications -- Chapter 2: Polymeric Hybrid Composites for Defence Applications -- Chapter 3: Materials and Technologies for Personnel Protection Systems -- Chapter 4: Polymeric Materials for Defence Store Under Extreme Cold Weather Environment -- Chapter 5: Development of Non-Metallic Structural Materials for Defence Systems -- Chapter 6: Defence Protective Textiles -- Chapter 7: Nano Fibrous Coated Web Technologies -- Chapter 8: Technical Textiles for Superhydrophobic and Oleophobic Applications -- Chapter 9: Ultrahigh Temperature Ceramic Components Fabrication and Their (Select) Production Technologies -- Chapter 10: Camouflage and Stealth Materials for

Sommario/riassunto

This book provides the latest developments in functional and engineering materials for defence applications. It contains a total of 20 book chapters in 2 proposed volumes: Vol. 1. Defence Functional Materials and Vol. 2. Defence Engineering Materials. All the book chapters are authored by leading scientists from the premier institutes, such as DRDO laboratory, DMSRDE, Kanpur, India, and edited by Drs. N Eswara Prasad, RJH Wanhill, and DK Setua. Both the authors and the editors are well known internationally for their seminal works in the Functional and Engineering Materials R&D and S&T. The principal purpose of this two-volume book is to provide the salient features of materials selection, synthesis, development and qualification for many a classical applications encompassing aero, naval and ground-based defence systems. They would surely act as valuable vade mecums for both active researchers, defence experts, post-graduate students, and faculty members who like to work and contribute to defence forces through research in areas such as defence materials, products, prototypes, sub-systems and systems that need cutting edge technologies and the latest and best materials and materials solutions.

---