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Disciplina	623.441
Soggetti	Helmets - Materials - Research - United States - 21st century Body armor - Materials - Research - United States - 21st century Combat survivability (Military engineering)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Evolution of combat helmets Threats, head injuries, and test methodologies Combat helmet testing Helmet performance measures and trends to test data First article testing protocols for resistance to penetration: statistical considerations and evaluations of DOD test plans Test protocols for backface deformation statistical considerations and assessment Lot acceptance testing Characterization tests for the advanced combat helmet and future helmets Linking helmet protection to brain injury.
Sommario/riassunto	Review of the Department of Defense Test Protocols for Combat Helmets considers the technical issues relating to test protocols for military combat helmets. At the request of the DOD Director of Operational Test and Evaluation, this report evaluates the adequacy of the Advanced Combat Helmet test protocol for both first article testing and lot acceptance testing, including its use of the metrics of probability of no penetration and the upper tolerance limit (used to evaluate backface deformation). The report evaluates appropriate use

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of statistical techniques in gathering data; adequacy of current helmet testing procedures; procedures for the conduct of additional analysis of penetration and backface deformation data; and scope of characterization testing relative to the benefit of the information obtained.