1. Record Nr. UNINA9910781368103321 **Titolo** Combat hybrid power system component technologies : technical challenges and research priorities // Committee on Assessment of Combat Hybrid Power Systems, National Materials Advisory Board, Board on Manufacturing and Engineering Design, Division on Engineering and Physical Sciences, National Research Council of the National Research Academies Washington, D.C., : National Academies Press, c2002 Pubbl/distr/stampa **ISBN** 0-309-54230-8 Descrizione fisica 1 online resource (xi, 76 pages) Disciplina 355.830973 Soggetti Vehicles, Military - United States Vehicles, Military - Electric equipment - United States Vehicles, Military - United States - Fuel systems Hybrid electric vehicles - United States Hybrid power systems - United States Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references. ""Front matter""; ""Acknowledgments""; ""Contents""; ""Tables and Nota di contenuto Figures""; ""Executive Summary""; ""1 Background and Overview""; ""2 Advanced Electric Motor Drives and Power Electronics"": ""3 Battery Technologies for Military Hybrid Vehicle Applications""; ""4 Hightemperature, Wideband Gap Materials for High-power Electrical Power Conditioning""; ""5 High-power Switching Technologies""; ""6 Capacitor Technology""; ""7 Computer Simulation for Storage Systems Design and Integration""; ""Appendix A Agenda of the Committeea€?s Data-Gathering Workshop""

""Appendix B List of Workshop Participants"""Appendix C Biographical Sketches of Committee Members""; ""Appendix D List of Acronyms""