

1. Record Nr.	UNINA9910967036403321
Titolo	Application of lightweighting technology to military aircraft, vessels and vehicles // National Research Council of the National Academies
Pubbl/distr/stampa	Washington, D.C., : National Academies Press, 2012
ISBN	9786613558084 9780309221696 0309221692 9781280380174 1280380179 9780309221672 0309221676
Edizione	[1st ed.]
Descrizione fisica	1 online resource (159 p.)
Disciplina	623
Soggetti	Vehicles, Military - Technological innovations - United States Vehicles, Military - United States - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"Committee on Benchmarking the Technology and Application of Lightweighting ; National Materials and Manufacturing Board ; Division on Engineering and Physical Sciences."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""Front Matter""; ""Preface""; ""Acknowledgment of Reviewers""; ""Contents""; ""Summary""; ""1 Background and Motivation""; ""2 Lightweighting Airborne Vehicles""; ""3 Lightweighting Maritime Vehicles""; ""4 Lightweighting Land-Based Vehicles""; ""5 Cross-cutting Issues and Challenges""; ""6 Findings and Recommendations""; ""Appendixes""; ""Appendix A: Committee Biographies""; ""Appendix B: Presentations to the Committee""; ""Appendix C: Acronyms and Abbreviations""
Sommario/riassunto	"Lightweighting is a concept well known to structural designers and engineers in all applications areas, from laptops to bicycles to automobiles to buildings and airplanes. Reducing the weight of structures can provide many advantages, including increased energy efficiency, better design, improved usability, and better coupling with new, multifunctional features. While lightweighting is a challenge in

commercial structures, the special demands of military vehicles for survivability, maneuverability and transportability significantly stress the already complex process. Application of lightweighting technology to military aircraft, vessels, and vehicles assesses the current state of lightweighting implementation in land, sea, and air vehicles and recommends ways to improve the use of lightweight materials and solutions. This book considers both lightweight materials and lightweight design; the availability of lightweight materials from domestic manufacturers; and the performance of lightweight materials and their manufacturing technologies. It also considers the 'trade space'--that is, the effect that use of lightweight materials or technologies can have on the performance and function of all vehicle systems and components. This book also discusses manufacturing capabilities and affordable manufacturing technology to facilitate lightweighting ... [and] will be of interest to the military, manufacturers and designers of military equipment, and decision makers"--Publisher's description.

2. Record Nr.	UNICAMPANIAVAN00261095
Autore	Hidaka, Takuya
Titolo	Sequence-Specific DNA Binders for the Therapy of Mitochondrial Diseases / Takuya Hidaka
Pubbl/distr/stampa	Singapore, : Springer, 2022
Descrizione fisica	XIII, 94 p. : ill. ; 24 cm
Disciplina	540 571.6 610.28 641
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

