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Autore	Romer, Alfred Sherwood
Titolo	Anatomia comparata dei vertebrati / Alfred Sherwood Romer
Pubbl/distr/stampa	Padova : Piccin, c1978
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Descrizione fisica	539 p. : ill. ; 25 cm
Altri autori (Persone)	Botte, V. Chieffi, G.
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Soggetti	Anatomy, comparative Vertebrata - Anatomy, comparative
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ISBN	1-119-88765-8 1-119-88766-6 1-119-88764-X
Descrizione fisica	1 online resource (256 pages)
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Disciplina	620.11
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Nota di contenuto	Manufacturing Processing Techniques. Additive Manufacturing: Technology, Materials and Applications in Aerospace / Veeman Dhinakaran, Mahesh Varsha Shree, Thimmaiah Jagadeesha, Madabushi Swapna Sai -- Study of the Manufacturing Process of Polymer Spur Gears: A Light Weight Gear Material / Jitendra Kumar Katiyar, Hemalata Jena -- Recent Trends in Welding Polymers and Polymer-Metal Hybrid Structures / Jinesh Kumar Jain, Pankaj Sonia -- Characterization. Preparation and Characterization of a Composite Material Using Sisal fibers for Light Body Vehicles / Zewdie Alemayehu, Ramesh Babu Nallamothu, Mekonnen Liben, Seshu Kishan Nallamothu, Anantha Kamal Nallamothu -- Optimizing the Polystyrene Catalytic Cracking Process Using Response Surface Methodology / Selvaganapathy Thambiyapillai, Muthuvelayudham Ramanujam, Jayakumar Mani -- Analysis. FEA Comparative Studies on Heat Flux and Thermal Stress Analysis during Conduction Mode and Keyhole Mode in the Laser Beam Welding / Harinadh Vemanaboina, Suresh Akella, Ramesh Kumar Buddu -- Effect of Formability Parameters on Tailor-Welded Blanks of Light Weight Materials / Dappu Deepika, Akkireddy Anitha Lakshmi, Tanya Buddi, Chalamalasetti Srinivas Rao -- Design and Analysis of Sedan Car B-pillar Outer Panel Using Abirbara with S-glass Fiber Hybrid

Composites / Ramesh Babu Nallamothu, Melkamu Yigrem Yihunie, Anantha Kamal Nallamothu, Seshu Kishan Nallamothu.

Sommario/riassunto

In the automotive and aerospace industries, the need for strong yet light materials has given rise to extensive research into aluminum and magnesium alloys and formable titanium alloys. All of these are categorized as light weight materials. The distinguishing feature of light weight materials is that they are low density, but they have a wide range of properties and, as a result, a wide range of applications. This book provides researchers and students with an overview of the recent advancements in light weight material processing, manufacturing and characterization. It contains chapters by eminent researchers on topics associated with light weight materials, including on the current buzzword "composite materials". First, this book describes the current status of light weight materials. Then, it studies applications of these materials, given that, as the densities vary, so do the applications, ranging from automobiles and aviation to bio-mechatronics. This book will therefore serve as an excellent guide to this field.