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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Mechanical behavior and resistance of structural glass beams in lateral-torsional buckling (LTB) with adhesive joints / Chiara Bedon and Jan Belis -- Room temperature mechanosynthesis of nanocrystalline metal carbides and their microstructure characterization / S.K. Pradhan and H. Dutta -- Toward a novel sma-reinforced laminated glass panel / Chiara Bedon and Filipe Amarante dos Santos -- Sustainable sugarcane bagasse cellulose for papermaking / Noé Aguilar-Rivera -- Bio-inspired composites : using nature to tackle composite limitations / F. Libonati -- On the electronic structure and band gap of ZnSxSe1-x / Ghassan H. E. Al-Shabeeb and A. K. Arof -- Application of first principles theory to the design of advanced titanium alloys / Y. Song, J. H. Dai, and R. Yang -- Digital orchid : creating realistic materials / Iftikhar B. Abbasov -- Transformation optics-based computational materials for stochastic electromagnetics / Ozlem Ozgun and Mustafa Kuzuoglu -- Superluminal photons tunneling through brain microtubules modeled as metamaterials and quantum computation / Luigi Maxmilian Caligiuri and Takaaki Musha -- Advanced fundamental-solution-based computational methods for thermal analysis of heterogeneous

materials / Hui Wang and Qing-Hua Qin -- Understanding the SET/RESET characteristics of forming free TiO_x/TiO_{2-x} resistive-switching bilayer structures through experiments and modeling / P. Bousoulas and D. Tsoukalas -- Advanced materials and three-dimensional computer-aided surgical workflow in cranio-maxillofacial reconstruction / Luis Miguel Gonzalez-Perez, Borja Gonzalez-Perez-Somarriba Gabriel Centeno, Carpentforo Vallellano, and Juan Jose Egea-Guerrero -- Displaced multiwavelets and splitting algorithms / Boris M. Shumilov.
