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Altri autori (Persone)	YuT. X <1941-> (Tongxi) ZhangL. C (Liangchi)
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deformable projectile; 11. Modelling and analysis of elastic wave propagation in FRCs; 12. Effects of stress wave propagation on the dynamic buckling of elastic-plastic structures; Others; 13. Thermal and mechanical effects of laser irradiation on targets
 14. Dimensional analysis: A different perspective to design aluminum alloys concerning intergranular fracture
 15. Some basic problems of microdynamics of solids; 16. Tensile fracture in Al foils acted by laser pulses; 17. Mechanical erosion of boiler tubes: Mechanism and formulation; List of publications; Author contact details; Author index

Sommario/riassunto

Plasticity and impact dynamics are two important areas in engineering practice, which includes structural engineering, crashworthiness, metal formation and new structural materials. The application of engineering plasticity and impact dynamics has resulted in significant achievements both technically and economically. This book presents the state-of-the-art developments in the above fields. It contains over 15 chapters written by experts in engineering plasticity and impact dynamics. It covers a wide range of theoretical developments and engineering applications, including fundamentals of ener

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Titolo

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Nota di contenuto

Front Cover; Contents; Preface; Acknowledgments; Chapter 1 Introduction; Chapter 2 Spin- State Crossover; Chapter 3 Li Ion Battery; Chapter 4 Huge Thermoelectric Power; Chapter 5 Room- Temperature Ferromagnetism; Chapter 6 Partially Disordered Antiferromagnetic Transition; Chapter 7 Superconductivity; Chapter 8 Transport Properties Combined with Charge, Spin, and Orbital: Magnetoresistance and Spin Blockade; Chapter 9 Intrinsic Inhomogeneity; Chapter 10 Move/ Diffuse and Charge/ Discharge Effect; Back Cover

Sommario/riassunto

<P>This book explores why cobalt oxides have drawn interest as functional materials due to their peculiar physical properties partially originating from a rich variety of the valence and spin state of cobalt ions. The book starts with the basics of condensed matter physics and advances toward the strong electron correlation system stage. It also provides up-to-date information on topics, such as thermoelectric power, superconductivity, solid oxide fuel cells, and nanostructure effect. </P>
