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analysis of windowed origami-ending crash tubes -- Chapter 13. Ballistic Impact Simulation of Alumina Using Smoothed Particle Hydrodynamics (SPH) Method -- Chapter 14. Comparative Study of Single Tunnel and T-Intersection Subjected D17:D43 to Impact Load -- Chapter 15. Ballistic response of composite helmet. etc.

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## Sommario/riassunto

This book comprises the select peer-reviewed proceedings of the 13th International Symposium on Plasticity and Impact Mechanics (IMPLAST) 2022, which was held at Indian Institute of Technology, Madras, to commemorate the 80th birthday of Prof. N K Gupta, IIT, Delhi. It aims to provide a comprehensive and broad-spectrum picture of the state-of-the-art research and development in diverse areas, such as constitutive relations, theories of plasticity, stress waves in solids, earthquake loading, high-speed impact problems, fire and blast loading, structural crashworthiness and failure, mechanics of penetration and perforation, among others. The contents focus on aspects of large deformations and failure of materials, including metals, composites, cellular, geomaterials, or concrete, and structures resulting from quasi-static earthquake, fire, impact, or blast loading. This book is a valuable resource for researchers and professionals working in academia and industry in the areas of mechanical, materials, and aerospace engineering.

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