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Chapter 11. Behavior of rc slab subjected to blast loading -- Chapter 12. Response of sdof system coupled with inerter based isolators under blast load -- Chapter 13. Reflected wave eliminator for blast wave simulator -- Chapter 14. Numerical Analysis of Underground Tunnel System with GFRP Shield against Internal Explosion -- Chapter 15. Numerical analysis of underground pipelines with CFRP against surface and subsurface blasts. 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. 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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