

Structures Under Shock and Impact XXIII contains the proceedings of the 13th International Conference in the successful series of Structures Under Shock and Impact. First held in 1989, the conference brings together the research works of scientists and engineers from a wide range of academic disciplines and industrial backgrounds who have an interest in the response of structures and materials to impact. The shock and impact behavior of structures is a challenging area, not only because of the obvious time-dependent aspects, but also due to the difficulties in specifying the external dynamic loadings, boundary conditions and connection characteristics for structural design and hazard assessment, and in obtaining the dynamic properties of materials. Thus, it is important to recognize and fully utilize the contributions and understand the emerging theoretical, numerical and experimental studies on structures, as well as investigations into the material properties under dynamic loading conditions. Any increased knowledge will enhance our understanding of these problems, and thorough forensic studies on the structural damage after accidents will lead to improved design requirements. The range of topics in this very active field is ever expanding. The following list of topics gives an idea of the wide number of applications covered: Impact and blast loading; Energy absorbing issues; Interaction between computational; and experimental results; Aeronautical and aerospace applications; Response of reinforced concrete under impact; Response of building facades to blast; Seismic behaviour; Structural crashworthiness; Industrial accidents and explosions; Hazard mitigation and assessment; Active protection and security; Tunnel and underground; structures protection; Dynamic analysis of composite structures; Design against failure; Damage limitation.

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