



Advances and Trends in Structural Engineering, Mechanics and Computation

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All major aspects of structural mechanics, associated computation and structural engineering are addressed in the present volume, including: structural mechanics (dynamics, vibration, impact, buckling, seismic response, fluid-structure interaction, soil-structure interaction); mechanics of materials (plasticity, fracture, fatigue, creep, shrinkage, damage, deterioration); numerical/computational modelling (numerical methods, formulations, finite-element modelling, structural modelling, material modelling, simulations); structural engineering and construction in the various materials (steel, concrete, timber, masonry, glass, steel-concrete composite, fibre-reinforced composite, laminated composite); design, construction and operational considerations (fire resistance, seismic resistance, loading, safety and reliability, codification, design optimisation, construction, assembly, monitoring, maintenance, repair, retrofitting). The structures dealt with include all sorts of buildings, sports facilities, bridges, viaducts, tunnels, underground structures, foundation structures, coastal structures, dams, industrial towers and masts, containment structures (silos, tanks and pressure vessels), ship and aircraft structures, motor-vehicle structures, mechanical components and biological structures.

Advances and Trends in Structural Engineering, Mechanics and Computation is published as a book of extended abstracts, and an accompanying CD-ROM with the full papers, and will be much of interest to engineers, academics and researchers in civil, structural, mechanical and aerospace engineering, and to those concerned with the analysis, design, construction and maintenance of engineering structures.

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