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Descrizione fisica	1 online resource (259 p.)
Altri autori (Persone)	BrankBo?stjan Ibrahimbegovi?cAdnan
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Nota di contenuto	Contents; Editorial advisory board; Editorial; Identification strategy in the presence of corrupted measurements; Constrained finite rotations in dynamics of shells and Newmark implicit time-stepping schemes; Saint-Venant multi-surface plasticity model in strain space and in stress resultants; Prediction of crack pattern distribution in reinforced concrete by coupling a strong discontinuity model; On numerical implementation of a coupled rate dependent damage-plasticity constitutive model.; Shape optimization of two-phase inelastic material with microstructure Parameterization based shape optimization: theory and practical implementation aspectsMulti-scale modeling of heterogeneous structures within elastic constitutive behaviour, Part I; Some aspects of 2D and/or 3D numerical modelling of reinforced and prestressed concrete structures; Coupling FEM and BEM for computationally efficient solutions of multi-physics and multi-domain problems
Sommario/riassunto	This e-book contains extended versions of the papers first presented

by several invited speakers at the NATO-sponsored advanced research workshop on "Multi-physics and multi-scale computer models in non-linear analysis and optimal design of engineering structures under extreme conditions", which was held in Bled, Slovenia, from June 13 to 17, 2004. It also features a couple of papers contributed by young researchers, who all made short presentations of their research works at that meeting. The collected papers seek to present the most recent research achievements on this currently very active
