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Nota di contenuto	Advances in Structures Analysis; Preface; Table of Contents; Towards an Expert System that Aids in the Diagnosis of Concrete Structures; A FEM Model to Analyze the Structural Mechanical Problem in an Electrostatically Controlled Prestressed Micro-Mirror; Optimization by the Reliability of the Damage by Tiredness of a Wire Rope of Lifting; Thermal Buckling of Simply Supported FGM Square Plates; Analytical and Finite Element Analysis for Short Term O-Ring Relaxation; A New Methodology for an Optimal Shape Design A Multi-Scale Analysis of Materials Reinforced by Inclusions Randomly Oriented in the Ply Plane Experimental Study of the Short-Term Creep Behavior of CFRP Strengthened Mortar under Compressive Loading; Contribution of AFM Observations to the Understanding of Ni3Al Yield Stress Anomaly; The Non Destructive Testing Methods Applied to Detect Cracks in the Hot Section of a Turbojet; Simulation of Thermo Mechanical Behavior of Structures by the Numerical Resolution of Direct Problem; Low Temperature Sintering and Characterization of MgTiO3; Keywords Index; Authors Index
Sommario/riassunto	Various research topics fall under the rubric of Structure: e.g. material damage leading to crack growth and/or fatigue of structures under dynamic loading or impact, durability and reliability of structures, numerical simulation and experimental work involving large deformations and impact associated with various experimental

techniques. With regard to experimental studies, many non-destructive tests have been developed during recent years in order to deliver more accurate data. Therefore, papers dealing with the processing, characterization and physical properties determination of materials
