

1. Record Nr.	UNINA9910828456903321
Titolo	Advances in fracture and damage mechanics XIII : selected, peer reviewed papers from the 13th International Conference on Fracture and Damage Mechanics (FDM 2014), September 23-25, 2014, Sao Miguel Island, Azores, Portugal / / edited by J. Alfaiate and M.H. Aliabadi
Pubbl/distr/stampa	Pfaffikon, Switzerland : , : Trans Tech Publications Ltd., , [2015] ©2015
ISBN	3-03826-619-1
Descrizione fisica	1 online resource (503 p.)
Collana	Key engineering materials ; ; volume 627
Disciplina	620.1126
Soggetti	Fracture mechanics Continuum damage mechanics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Advances in Fracture and Damage Mechanics XIII; Preface and Committees; Table of Contents; Lamb-Wave Based Damage Detection in Anisotropic Composite Plates; Analysis of 3D Planar Crack Problems by Body Force Method; Long Life Fatigue Behavior of Shot Peened Steels; A Finite Fracture Mechanics Model for the Prediction of the Notched Response and Large Damage Capability of Composite Laminates; Low-Cost System to Evaluate Impact Localization in Composite Plates; Modeling Delamination Growth in Composite Panels Subjected to Fatigue Load Definition of a Constitutive Material Model for Progressive Failure Analysis of Composite Laminates Round Timber Bolted Joints with Steel Plates under Static and Cyclic Loading; A Multiscale Approach to Polycrystalline Materials Damage and Failure; A Multi-Scale Scheme for Modelling Fracture under Dynamic Loading Conditions; Estimation of the Crack Behaviour in the Compressive Layer of the Alumina-Zirconia Ceramic Laminate; Fatigue Life Assessment of Self-Expandable NiTi Stent; Modelling Mixed-Mode Fracture Using an Energy-Based Damage Model Multi-Scale Mechanical Property Characterisation of Quasi-Brittle Filter

GraphiteFE Analysis of Functionally Graded Material Plate during Debonding Case with Different Boundary Conditions; Optimized Design of Strengthening Structure with Hat-Shaped Cross-Section by Carrying out Buckling Test; High Magnification Studies of Fatigue Crack Propagation; Fracture Behavior of Notched Round Bars Made of Gray Cast Iron Subjected to Torsion; Polymethylmethacrylate Data from U-Notched Specimens and V-Notches with End Holes: A Synthesis by Means of Local Energy
High Temperature Fatigue Tests of a Cu-Be Alloy and Synthesis in Terms of Linear Elastic Strain Energy Density
Fatigue Behaviour of DLC Coated Al 7075-T6 Alloy in an Aggressive Mixture; Gaussian Specimens for Gigacycle Fatigue Tests: Evaluation of Temperature Increment; Vibrational and Inertial Effects of Methane Hydrates in the Failure of a Pipeline; Evaluation by FEM of the Influence of the Preheating and Post-Heating Treatments on Residual Stresses in Welding; Fatigue Behaviour of Full Scale Flat Stiffened Aeronautic Panels; Numerical Study of a Plate with a Pre-Cracked Circular Notch
Numerical Simulation and Experimental Investigation of Damage Behaviour on Al6061 Laser Welded Joints
Flexural Property and Mode I Interlaminar Fracture Toughness of Plain Woven Carbon Fiber Reinforced Plastics after Water Absorption and Freezing; Effect of Acid Treatment on Mechanical Performance of Polyvinyl Alcohol/Halloysite Nanocomposites; A Theory for Mathematical Framework of Fatigue Damage on S-N Plane; Topology Optimization of Geometrically Non-Linear Structures Using Iso-XFEM Method; Fracture Mechanisms in High-Cycle Fatigue of Selective Laser Melted Ti-6Al-4V
Investigation of Residual Stresses in Selective Laser Melting

Sommario/riassunto

Collection of selected, peer reviewed papers from the 13 th International Conference on Fracture and Damage Mechanics (FDM 2014), September 23-25, 2014, Sao Miguel Island, Azores, Portugal.
