

1. Record Nr.	UNISALENTO991004040219707536
Autore	Camenzind, Max
Titolo	Les noyaux actifs de galaxies : galaxies de Seyfert, QSO, quasars, lacertides et radiogalaxies / Max Camenzind ; traduit de l'allemand par Agnès Boucher
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Soggetti	Active galaxies - Congresses Radio sources (Astronomy) - Congresses
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Altri autori (Persone)	ProulxThomas A
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Nota di contenuto	Application of Imaging Techniques to Mechanics of Materials and Structures, Volume 4; Preface; Contents; Identification from full-field measurements: a promising perspective in experimental mechanics; ABSTRACT; INTRODUCTION; FULL-FIELD MEASUREMENT TECHNIQUES; Kinematical measurement; Thermal measurements; APPLICATIONS OF FULL-FIELD MEASUREMENT TECHNIQUES IN EXPERIMENTAL SOLID MECHANICS; IDENTIFICATION OF CONSTITUTIVE PARAMETERS FROM FULL-FIELD MEASUREMENTS; Statement of the problem; Model updating; Constitutive gap method; Equilibrium gap method; Virtual fields method; CONCLUSION; REFERENCES Identification of Cohesive-Zone Laws from Crack-tip Deformation FieldsABSTRACT; INVERSE PROBLEM OF COHESIVE ZONE MODEL; INTEGRATED APPROACH; Optical measurement of crack-tip deformation field; Numerical noise reduction in full-field data; Extracting cohesive zone laws of crazing; REFERENCES; Recovery of 3D

stress intensity factors from surface full-field measurements;
 ABSTRACT; Three dimensional effects in linear fracture mechanics;
 Extending the fields inside the solid: the data completion method;
 Cauchy problem for the Elasticity operator;; Computation of 3D SIFs
 and energy release rates
 Determination of 3D KIFs for a straight crack in a thick plate from
 surface displacements measurementsConclusion; References;
 Characterization of aluminum alloys using a 3D full field measurement;
 ABSTRACT; INTRODUCTION; 3D STRAIN FIELD RECONSTRUCTION;
 THEORETIC MODELS; PARAMETER IDENTIFICATION; CONCLUSION;
 REFERENCES; Low Strain Rate Measurements on Explosives Using DIC;
 Abstract; Introduction; Materials Tested; Instrumentation; Testing;
 Thermal Expansion Measurements; Poisson's Ratio Measurements;
 Axial-Torsion Testing; Tensile Creep; Summary; Acknowledgments;
 REFERENCES
 Investigation on failure mechanisms of composite structures subjected
 to 3D state of stressesABSTRACT; 1. INTRODUCTION; 2. EXPERIMENTAL
 WORK; 2.1 Specimen details; 2.2 Experimental devices; 2.3 Some
 experimental results on FPB tests; 3. IDENTIFICATION OF THE OUT-OF-
 PLANE PROPERTIES; 3.1 Identification of the out-of-plane tensile
 strength; 3.2 Identification of the out-of-plane shear strength; 4.
 CONCLUSIONS AND PERSPECTIVES; ACKNOWLEDGMENTS; REFERENCES;
 Structural damage assessment in fiber reinforced composites using
 image decomposition; ABSTRACT; INTRODUCTION; IMAGE
 DECOMPOSITION
 SPECIMEN, EXPERIMENTAL SETUP AND METHODZERNIKE MOMENTS;
 FOURIER DESCRIPTORS; FOURIER-ZERNIKE DESCRIPTORS;
 CONCLUSIONS; BIBLIOGRAPHY; Finite element Model matching based on
 optical measurement fields on single shear lap joint; Abstract; 1.
 Introduction; 2. Identification from measurements of mechanical fields;
 2.1. Presentation of the method; 2.2. Experimental procedure; 2.3.
 Manufacturing of specimens; 2. Finite Elements Analysis; 3. Results and
 discussion; 4. Conclusion; References
 Interaction between a dynamically growing crack with stiff and
 compliant inclusions using DIC and high-speed photography

Sommario/riassunto

This the fourth volume of six from the Annual Conference of the Society for Experimental Mechanics, 2010, brings together 58 chapters on Application of Imaging Techniques to Mechanics of Materials and Structure. It presents findings from experimental and computational investigations involving a range of imaging techniques including Recovery of 3D Stress Intensity Factors From Surface Full-field Measurements, Identification of Cohesive-zone Laws From Crack-tip Deformation Fields, Application of High Speed Digital Image Correlation for Vibration Mode Shape Analysis, Characterization of Aluminum Alloys Using a 3D Full Field Measurement, and Low Strain Rate Measurements on Explosives Using DIC.
