

1. Record Nr.	UNINA9910841870303321
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Titolo	Challenges in Mechanics of Biological Systems and Materials, Thermomechanics and Infrared Imaging, Time Dependent Materials and Residual Stress, Volume 2 : Proceedings of the 2023 Annual Conference and Exposition on Experimental and Applied Mechanics
Pubbl/distr/stampa	Cham : , : Springer, , 2024 ©2024
ISBN	3-031-50470-4
Edizione	[1st ed.]
Descrizione fisica	1 online resource (105 pages)
Collana	Conference Proceedings of the Society for Experimental Mechanics Series
Altri autori (Persone)	KaszaKaren EstradaJon De FinisRosa ÓlafssonGeir GururajaSuhasini FurmanskiJevan ForsterAaron KolluruPavan PrimeMike
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Contents -- Development of PEEK Matrix Polymer Composite and Additive Manufacturing by Pellet Extrusion Method -- Introduction -- Materials and Methods -- Results and Discussion -- Conclusion -- References -- Parkinsonian Hand Tremor Mitigation with Enhanced Wearable Device -- Introduction -- Background -- Methods -- Results -- Discussion -- Conclusion -- References -- Quantitative Measurement of Viscoelastic Properties of Soft Membranes Subjected to Finite Deformations Based on Optical Coherence Elastography -- Introduction -- Background -- Analysis -- Conclusion -- References -- Open Source Contour Method Analysis for Assessing Residual Stress in Weldments -- Introduction -- Overall Architecture -- Case Study --

Discussion -- Summary -- References -- Variation of Initial Bulk Residual Stresses in Aluminum Alloy 7050-T7451 and Its Effect on Distortion of Thin-Walled Structural Parts -- Introduction -- Methods -- Initial Bulk Residual Stress Measurements -- Distortion Experiments -- FEM Distortion Model -- Results -- Initial Bulk Residual Stress Measurements -- Distortion -- Conclusion -- References -- On the Use of iDIC (Integrated Digital Image Correlation) for the Slitting Method -- Introduction -- Background -- Analysis -- Conclusion -- References -- A Rapid Procedure to Reconstruct S/N Curve by Using Harmonic Components of Thermal Signal -- Introduction -- Background -- Damage and Stiffness Loss of Material -- Materials, Methods and Data Processing -- Analysis -- Conclusion -- References -- Rapid Fatigue Characterization via Infrared Thermography of AM-CM Composites -- Introduction -- Background -- Materials -- Fatigue Limit Estimation Using IRT -- Results and Discussion -- Conclusion -- References -- Condition Assessment by Thermal Emission (CATE) for In Situ Monitoring of Fatigue Crack Growth -- Introduction -- Methods. Results and Discussion -- Conclusion -- References -- Effect of Geometrical Discontinuities on Mode Shapes Stress Maps Using Infrared Thermography -- Introduction -- Experiments -- Experimental Data Processing -- FEM Model -- Results -- Conclusion -- References -- Induction Thermography: Influence of Testing Parameters for Different Crack Geometry -- Introduction -- Theory -- Experimental Set-up -- Analysis -- Numerical Results -- Experimental Results -- Discussion -- Conclusions -- References -- Numerical Simulation of the Heat Dissipation During the Fatigue Test -- Introduction -- Numerical Simulation of the Heat Source -- Heat Source Identification -- Conclusion -- References -- A Full Experimental Characterization of Aged Nitrile Butadiene Rubbers (NBR) -- Introduction -- Experimental Protocol -- Materials and Methods -- Thermo-oxidative Aging and Compression Set (CS) -- DMA Tests -- Results and Discussions -- Unaged Specimens -- CS Measurements After Aging -- DMA Measurements After Aging -- Conclusion -- References -- Characterization of the Effect of Cold Joints and Functional Grading in Stepwise Constructed Tensile Dog Bones with Embedded Digital Image Correlation -- Introduction -- Experimental Method -- Summary of Tensile Test Technique -- Functional Grading and Cold Joints -- Results -- Conclusion -- References.

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