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Nota di contenuto	Localization and discrimination of microseismic/AE sources in mining: from data to information -- Internet of things acoustic emission: systems and applications -- About an initial draft of a standard concerning sensitivity verification of acoustic emission sensors -- Comparative analysis of the international status of acoustic emission equipment performance testing -- An improved beam method for acoustic emission source localization in thin plate -- Correlation analysis of acoustic emission signals at different distances form hypervelocity simulation damage source -- An acoustic emission source localization method based ant colony without premeasured velocity -- Acoustic emission and dual-tree complex wavelet transform with soft threshold de-noising to enhance pipeline leak detection and location -- Acoustic emission burst extraction for multi-level leakage detection in a pipeline -- Prediction of residual life of oil and gas pipeline corrosion based on deep learning -- Improving bearing diagnostic performance by using new discriminatory fault-feature

evaluation -- Application of kurtosis analysis in fault detection of rolling bearing -- Fatigue evolution of ball bearing with improved acoustic emission index -- Study on the propagation law of lamb wave in high stiffened panels -- Research on AE signal acquisition and source location of tank bottom corrosion -- Research on extraction method of fatigue state magneto acoustic emission characteristic parameters based on CEEMD -- Cluster analysis of acoustic emission signals on tensile damage process of C/SiC using an improved k-means algorithm -- Investigation of flexural progressive damage of three-dimensional braided composites by acoustic emission and micro-ct -- Fatigue Crack Growth of TC4 Titanium Alloy Using Acoustic Emission Technique -- Experiment research on tensile process of glass fiber reinforced plastics basing on AE -- High-temperature creep damage evolution of C/SiC based on acoustic emission -- Acoustic emission monitoringof pitting corrosion on zirconium metal -- Acoustic emission in coatings-a review -- Experiment Research on Tensile Process of Type IV Gas Cylinder Liner-HDPE Based on Acoustic Emission -- Detection and evaluation of vascular network based self-healing concrete using acoustic emission -- Damage evaluation inside the concrete dam by tomography and AE analysis -- Evaluation of fatigue damage in RC slabs considering water infiltration by means of 3D AE & elastic wave tomography -- Research on acoustic emission technology for tank floor under interference of nitrogen sealing system.

Sommario/riassunto

This book presents articles from the World Conference on Acoustic Emission 2019 (WCAE-2019) held at Guangdong, China. The latest research and applications of acoustic emission (AE) are explored, with a particular emphasis on detecting and processing AE signals, the development of AE instrument and testing standards, AE of materials, engineering structures and systems, including the processing of collected data and analytical techniques. Numerous case studies are also included. It brings together leading academicians and professionals in the field to foster collaboration and to enhance research in this important area, with wide ranging applications.