1. Record Nr. UNINA9910483075403321 Advances in Condition Monitoring and Structural Health Monitoring: Titolo WCCM 2019 / / edited by Len Gelman, Nadine Martin, Andrew A. Malcolm, Chin Kian (Edmund) Liew Singapore:,: Springer Nature Singapore:,: Imprint: Springer,, 2021 Pubbl/distr/stampa 981-15-9199-7 **ISBN** Edizione [1st ed. 2021.] Descrizione fisica 1 online resource (XV, 795 p. 504 illus., 415 illus. in color.) Collana Lecture Notes in Mechanical Engineering, , 2195-4364 Disciplina 690.24 Soggetti Multibody systems Vibration Mechanics, Applied Aerospace engineering Astronautics Buildings - Repair and reconstruction **Buildings - Maintenance** Coatings Tribology Corrosion and anti-corrosives Multibody Systems and Mechanical Vibrations Aerospace Technology and Astronautics **Building Repair and Maintenance** Corrosion Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto 1. Condition monitoring -- 2. Structural health monitoring -- 3. Nondestructive testing and evaluation. Sommario/riassunto This book comprises the selected contributions from the 2nd World Congress on Condition Monitoring (WCCM 2019), held in Singapore in December 2019. The contents focus on digitalisation for condition monitoring with the emergence of the fourth industrial revolution (Industry 4.0) and the Industrial Internet-of-Things (IIoT). The book

covers latest research findings in the areas of condition monitoring,

structural health monitoring, and non-destructive testing which are relevant for many sectors including aerospace, automotive, civil, oil and gas, marine, and manufacturing industries. Different monitoring systems and non-destructive testing methods are discussed to avoid failures, increase lifespans, and reduce maintenance costs of equipment and machinery. The broad scope of the contents will make this book interesting for academics and professionals working in the areas of non-destructive evaluation and condition monitoring.