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Sommario/riassunto	This book compiles the proceedings of the 18th AVMS Conference, held in Timioara, Romania, on May 30–31, 2025. The conference covered a wide range of topics in acoustics and vibration, including: Noise and vibration control Noise and vibration generation and propagation Effects of noise and vibration Condition monitoring and vibration

testing Modelling, prediction, and simulation of noise and vibration Environmental and occupational noise and vibration Noise and vibration attenuators Biomechanics and bioacoustics The book also explores analytical, numerical, and experimental techniques for addressing both linear and non-linear noise and vibration issues, with a particular focus on strongly non-linear problems. It highlights the latest trends and state-of-the-art developments in these fields. This publication is designed for academics, researchers, professionals, and PhD students working in various domains related to the acoustics and vibration of mechanical structures.