

TECHNICAL LECTURE SERIES (LECTURE-16)

SHM BY PIEZO-BASED OPERATIONAL MODAL ANALYSIS: TRANSITION FROM LAB TO FIELD

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ONLINE MODE



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LECTURE



Dr. Dattar Singh Aulakh is a Research Associate at the Indian Institute of Technology Roorkee, developing data fusion models for enhanced damage monitoring of structures for field applications. His research areas include structural health monitoring (SHM), structural dynamics, and sensor development. He earned his Doctorate from the Indian Institute of Technology Delhi, where his work focused on vibration-based monitoring using piezoelectric sensors. His research at the Smart Structures and Dynamics Laboratory (SSDL), IIT Delhi, included modal analysis-based monitoring using piezoelectric sensors and developing non-bonded configurations of piezoelectric sensors for SHM. Dr. Aulakh has published in high-impact journals and presented at leading international conferences such as SPIE, EWSHM, Eurodyn, etc.