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Sensor Technologies for Civil Infrastructures (Woodhead Publishing Series in Electronic and Optical Materials)

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Volume I focuses on sensing hardware and data collection, covering a variety of sensors. The book examines fiber optic systems, acoustic emission, piezoelectric sensors, electromagnetic sensors, ultrasonic methods, and radar and millimeter wave technology. Its chapters cover strain gauges, micro-electro-mechanical systems (MEMS), multifunctional materials and nanotechnology for sensing, and vision-based sensing and lasers.

Volume II concentrates on data analysis, with an in-depth examination of sensor data management and analytical techniques for fault detection and localization, looking at prognosis and life-cycle assessment. This volume features case studies in assessing structures such as bridges, buildings, super-tall towers, dams, tunnels, wind turbines, railroad tracks, nuclear power plants, offshore structures, levees, and pipelines.

Sensor Technologies for Civil Infrastructure: Volumes I and II provide a standard reference for structural and civil engineers, electronics engineers and academics with an interest in the field.

- Volume 1 describes sensing hardware and data collection and covers a variety of sensors, including fiber optic systems, piezoelectric sensors, strain gauges, MEMS (micro-electro-mechanical systems), and lasers
- Volume 2 examines sensor data analysis and case studies, assessing structures such as bridges, buildings, dams, tunnels, and pipelines

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