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**Sinopsis**

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STRUCTURAL HEALTH MONITORING IS AN EXTREMELY IMPORTANT METHODOLOGY IN EVALUATING THE 'HEALTH' OF A STRUCTURE BY ASSESSING THE LEVEL OF DETERIORATION AND REMAINING SERVICE LIFE OF CIVIL INFRASTRUCTURE SYSTEMS. THIS BOOK REVIEWS KEY DEVELOPMENTS IN RESEARCH, TECHNOLOGIES, AND APPLICATIONS IN THIS AREA OF CIVIL ENGINEERING. IT DISCUSSES WAYS OF OBTAINING AND ANALYZING DATA, SENSOR TECHNOLOGIES, AND METHODS OF SENSING CHANGES IN STRUCTURAL PERFORMANCE CHARACTERISTICS. IT ALSO DISCUSSES DATA TRANSMISSION AND THE APPLICATION OF BOTH INDIVIDUAL TECHNOLOGIES AND ENTIRE SYSTEMS TO BRIDGES AND BUILDINGS.

WITH ITS DISTINGUISHED EDITORS AND INTERNATIONAL TEAM OF CONTRIBUTORS, STRUCTURAL HEALTH MONITORING OF CIVIL INFRASTRUCTURE SYSTEMS IS A VALUABLE REFERENCE FOR STUDENTS IN CIVIL AND STRUCTURAL ENGINEERING PROGRAMS AS WELL AS THOSE STUDYING SENSORS, DATA ANALYSIS, AND TRANSMISSION AT UNIVERSITIES. IT IS ALSO AN IMPORTANT SOURCE FOR PRACTICING CIVIL ENGINEERS AND DESIGNERS, ENGINEERS AND RESEARCHERS DEVELOPING SENSORS, NETWORK SYSTEMS AND METHODS OF DATA TRANSMISSION AND ANALYSIS, POLICY MAKERS, INSPECTORS, AND THOSE RESPONSIBLE FOR THE SAFETY AND SERVICE LIFE OF CIVIL INFRASTRUCTURE.