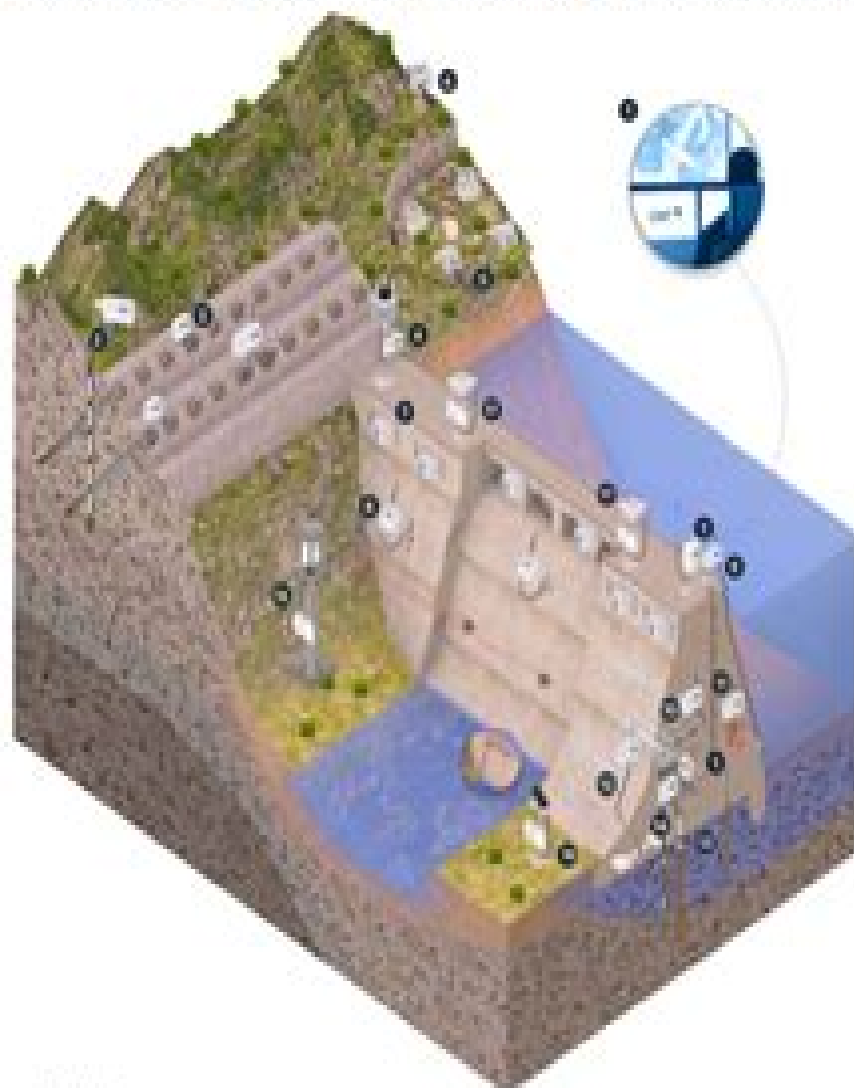


Monitor Dams more Efficiently



- 1 Remotely manage your networks, devices and data integrations from **IoT Workbench** Connectivity Management Tool. Stream your monitoring data seamlessly from **IoT to Sensewatcher** platform to make data informed decisions on the overall performance of your dam.
- 2 Measure the lateral movement of the slopes using an in-place inclinometer connected to a **digital logger**.
- 3 Measure the force in ground anchors with the **Procode** or a **5-channel vibrating wire data logger** connected to a load cell.
- 4 Monitor weather conditions such as wind, rain, temperature, humidity, and barometric readings with a weather transmitter connected to a **digital logger**.
- 5 Detect slope movements in real time less than 2 seconds in real time using the **T0000** wireless tiltmeters for the **Event Detection Solution**.
- 6 Check the relative distance variation of the slopes with the **LineT000**, a 1-in-1 laser distance meter, inclinometer and data logger, pointing at a target surface.
- 7 Measure tilt, structure response to strain, angular distortion or horizontal displacement with the **T000-u**, a 2-in-1 inclinometer and data logger, rotated using a vertical mounting bracket.
- 8 Check the movement across surface cracks and joints and building response to twisting with the **Procode** or **Vibrating wire 5-channel data logger** connected to a dilatometer or displacement sensor (potentiometer) or vibrating wire.
- 9 Monitor the water levels in the reservoir with an automatic level recorder connected to a **digital logger**.
- 10 Assess the dam response to temperature with a chain of temperature sensors connected to a **digital logger**, or up to five thermistors with **5-channel vibrating wire**.
- 11 Monitor the axial stress in the concrete dam body with a strain meter module connected to a **5-channel vibrating wire**.
- 12 Assess the contact earth pressures on the surface of concrete with pressure cells connected to the vibrating wire **5-channel data logger**.
- 13 Measure the relative displacement between foundation base rock and the dam bottom with a multiple borehole extensometer connected to a **5-channel vibrating wire**.
- 14 Monitor pore water pressure through vibrating wire piezometers in a borehole connected to a **vibrating wire 5-channel data logger**.
- 15 Complement your geotechnical monitoring with a total station connected to a **Thread K2** for accurate movement detection, integrate surveying, imaging, and scanning capabilities the example projects.
- 16 Integrate automated remote visual observations to your condition monitoring program with a total camera connected to a **Thread K5**.
- 17 Accurately measure 3D displacement of structures and ground movement using precision GNSS sensors connected to a **Thread K3**.

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Smart Structures Dams

Hartmut Janocha



Smart Structures Dams:

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Levees and Dams Juan Lorenzo, William Doll, 2019-11-11 This book aims to inform policy makers engineers and earth scientists about the current and emerging role of geophysics in addressing environmental processes assessments and policy directions related to new and existing dams and levees Until now geophysics has concentrated on characterization and remediation of dams and levees but now the field is changing our understanding on the influence of natural processes e g floods dissolution and human activities in the design and management of these structures This monograph includes advances in the following fields of Dams and Levees studies New insights from small and mid sized laboratory experiments Integrated methods electromagnetic seismic potential methods Inverse modeling approaches Statistical considerations Monitoring of processes attending aging structures Hazard monitoring Risk Analysis **Smart Buildings Digitalization** O.V. Gnana

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