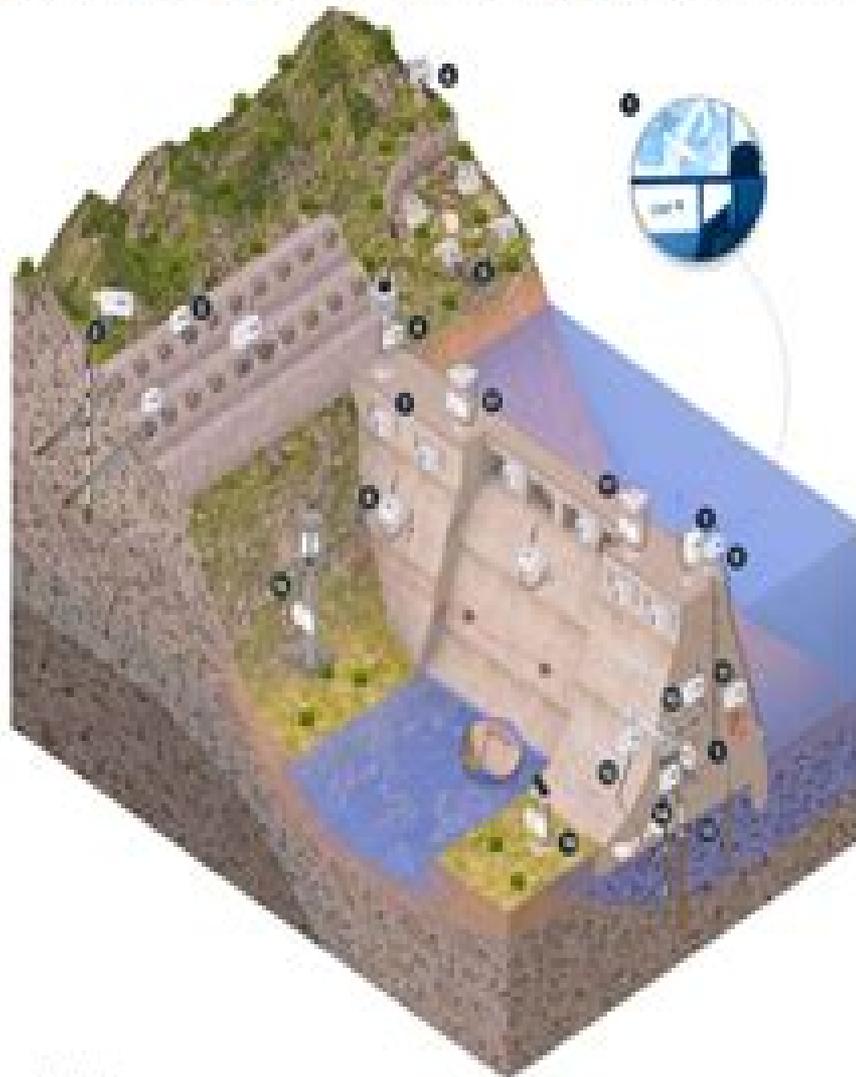


Monitor Dams more Efficiently



1. Remotely manage your networks, devices and data integrations from **IoT Workflows**, Connectivity Management Tool. Stream your monitoring data streams 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 **Flexnode** or a **3-channel vibrating wire data logger** connected to a **field cell**.
4. Monitor weather conditions such as wind, rain, temperature, relative humidity, and barometric readings with a weather transmitter connected to a **digital logger**.
5. Detect slope movements in real time faster than 2 seconds in most cases through the **TRIMble wireless Stimulators for the Event Detection Solution**.
6. Check the relative distance variation of the slopes with the **LaserTRIM**, a 1- or 2- or 3 laser distance meter, inclinometer and data logger, working at a large surface.
7. Measure 3D structure response to shear, angular distortion or horizontal displacement with the **Tetra-4**, a 2- or 3- or 4 inclinometer and data logger, rotated using a vertical mounting bracket.
8. Check the movement across surface cracks and joints and building response to tunnelling with the **Flexnode** or **Vibrating wire 4-channel data logger** connected to a **strainmeter** 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 **3-channel vibrating wire**.
11. Monitor the axial stress in the concrete dam body with a strain meter, flexible connector to a **3-channel vibrating wire**.
12. Assess the contact earth pressure on the surface of concrete with pressure cells connected to the vibrating wire **3-channel data logger**.
13. Measure the relative displacement between foundation base rock and the dam bottom with a multiple channel extensometer connected to a **3-channel vibrating wire**.
14. Monitor pore water pressure through vibrating wire piezometers in a borehole connected to a **vibrating wire 3-channel data logger**.
15. Compensate your geotechnical monitoring with a **Total Station** connected to a **Thread K3** for accurate movement detection, integrate surveying, imaging and scanning capabilities the remote projects.
16. Integrate automated remote visual observations to your condition monitoring program with a **field camera** connected to a **Thread K3**.
17. Accurately measure 3D displacement of structures and ground movement using precision **IMOS** sensors connected to a **Thread K3**.

Smart Structures Dams

R Bogdan



Smart Structures Dams:

Smart Structures: Dams Julie Richards, 2003 Essential elements of man made structures and what makes them work Shape design and building materials 9 yrs *Smart Structures Theory* Inderjit Chopra, Jayant Sirohi, 2014 This book focuses on smart materials and structures which are also referred to as intelligent adaptive active sensory and metamorphic The ultimate goal is to develop biologically inspired multifunctional materials with the capability to adapt their structural characteristics monitor their health condition perform self diagnosis and self repair morph their shape and undergo significant controlled motion **Fiber Optic Smart Structures and Skins**, 1992 **World Forum on Smart Materials and Smart Structures Technology** B.F. Spencer Jr., M. Tomizuka, C.B. Yun, W.M. Chen, R.W. Chen, 2008-06-23 Research in smart materials and structures seeks to apply multifunctional capabilities of new and existing materials to develop structures and systems that are capable of self sensing and monitoring self diagnosis and prognosis with intelligence self healing and repair and adaptive response to prevent loss of human life and catastrophe to minimize maintenance and life cycle costs and to prolong service life This book provides the critical knowledge and technological bases required for meeting one of the ultimate engineering challenges the design and construction of smart structures and systems Intelligent Structures K.P. Chong, 2003-10-04 Proceedings of the International Workshop on Intelligent Structures Taipei Taiwan 23 26 July 1990 *Smart Structures and Materials*, 1996 **European Conference on Smart Structures and Materials**, 1994 Proceedings of the US-Europe Workshop on Sensors and Smart Structures Technology Lucia Faravelli, Billie Floyd Spencer, 2003 **Fiber Optic Smart Structures and Skins** Eric Udd, 1989 Static Shape Control of Smart Structures Laxminarayana Saggere, 1998 **Guidelines for Instrumentation and Measurements for Monitoring Dam Performance** Task Committee on Instrumentation and Monitoring Dam Performance, 2000-01-01 Prepared by the Task Committee on Instrumentation and Monitoring Dam Performance of the Hydropower Committee of the Energy Division of ASCE This report is a handy and comprehensive source of information for dam owners engineers and regulators about instrumentation and measurements for monitoring performance of all types of dams It presents the methodology and process for the selection measurement instruments and techniques installation operation maintenance use and evaluation of instrumentation and measurement systems for dam appurtenant structures their foundations and environment Topics include factors affecting dam performance means and methods of monitoring dam performance planning and implementation of a monitoring program data evaluation and reporting and decision making Case histories of instrumentation and monitoring programs at specific dams are provided for the reader Product Review I highly recommend this comprehensive reference on instrumentation used to evaluate dam performance All owners engineers and regulators of dams should own a copy of this book Fred Sage Field Branch Chief California Division of Safety of Dams *Fiber Optic Smart Structures* Eric Udd, 1995-04-17 This book is intended as an introduction and reference to fiber optic smart structures Smart structures are

used as sensors in a wide variety of applications and fields from aerospace engineering to electrical engineering to civil engineering *Sensor Technologies for Civil Infrastructures, Volume 1* Jerome P. Lynch, Hoon Sohn, Ming L. Wang, 2014-04-26 Sensors are used for civil infrastructure performance assessment and health monitoring and have evolved significantly through developments in materials and methodologies *Sensor Technologies for Civil Infrastructure Volume I* provides an overview of sensor hardware and its use in data collection The first chapters provide an introduction to sensing for structural performance assessment and health monitoring and an overview of commonly used sensors and their data acquisition systems Further chapters address different types of sensor including piezoelectric transducers fiber optic sensors acoustic emission sensors and electromagnetic sensors and the use of these sensors for assessing and monitoring civil infrastructures Developments in technologies applied to civil infrastructure performance assessment are also discussed including radar technology micro electro mechanical systems MEMS and nanotechnology *Sensor Technologies for Civil Infrastructure* provides a standard reference for structural and civil engineers electronics engineers and academics with an interest in the field Describes sensing hardware and data collection covering a variety of sensors Examines fiber optic systems acoustic emission piezoelectric sensors electromagnetic sensors ultrasonic methods and radar and millimeter wave technology Covers strain gauges micro electro mechanical systems MEMS multifunctional materials and nanotechnology for sensing and vision based sensing and lasers *ECPPM 2021 - eWork and eBusiness in Architecture, Engineering and Construction* Vitaly Semenov, Raimar J Scherer, 2021-07-25 *eWork and eBusiness in Architecture Engineering and Construction 2021* collects the papers presented at the 13th European Conference on Product and Process Modelling ECPPM 2021 Moscow 5 7 May 2021 The contributions cover a wide spectrum of thematic areas that hold great promise towards the advancement of research and technological development targeted at the digitalization of the AEC FM Architecture Engineering Construction and Facilities Management domains High quality contributions are devoted to critically important problems that arise including Information and Knowledge Management Semantic Web and Linked Data Communication and Collaboration Technologies Software Interoperability BIM Servers and Product Lifecycle Management Systems Digital Twins and Cyber Physical Systems Sensors and Internet of Things Big Data Artificial and Augmented Intelligence in AEC Construction Management 5D nD Modelling and Planning Building Performance Simulation Contract Cost and Risk Management Safety and Quality Sustainable Buildings and Urban Environments Smart Buildings and Cities BIM Standardization Implementation and Adoption Regulatory and Legal Aspects BIM Education and Training Industrialized Production Smart Products and Services Over the past quarter century the biennial ECPPM conference series as the oldest BIM conference has provided researchers and practitioners with a unique platform to present and discuss the latest developments regarding emerging BIM technologies and complementary issues for their adoption in the AEC FM industry

Smart Materials, Structures, and Mathematical Issues Craig A. Rogers, 1989-08-17 Selected from a US Army

Research Office Workshop this collection of papers describes applications in electrorheological fluids sensor actuator films self adaptive structures and shape memory materials Smart materials a new class of materials of strategic and economic importance are viewed as providing new opportunities in polymer materials ceramics electronic materials metals and composite materials No index Annotation copyrighted by Book News Inc Portland OR **Smart Structures and Materials 2003** Shih Chi Liu,2003 *Aircraft Structures and Materials* Institution of Mechanical Engineers (Great Britain),1996 These proceedings contain a selection of papers from the Autotech event dealing with aircraft structures and materials The topics covered include analysis of damage carbon fibre composites structural design smart structures and materials materials selection and search peening *Conference Record* ,1996 [Northcon/96](#) ,1996 *Conference Proceedings* ,1992

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