Expansion Joints In Buildings Technical Report No 65

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Materials - Alan Everett 2014-05-12
A well-known and respected standard reference, this fifth edition provides a thorough treatment of the properties of building materials and their manufacture, both on-site and in the factory.
Structural Concepts and Systems for Architects

and Engineers - Tung Yen Lin 1981

Structural Design Criteria for Buildings - 1992

Designing with Steel Joists, Joist Girders, Steel Deck - James M. Fisher 1991

Library of Congress Catalogs - Library of Congress 1976

Masonry - Harry A. Harris 1988
This title provides a thorough theoretical and practical introduction to the application of neural networks to pattern recognition and intelligent signal processing. It has been tested on students, unfamiliar with neural networks, who were able to pick up enough details to successfully complete their masters or final year undergraduate projects. The text also presents a comprehensive treatment of a class of neural networks called common bandwidth spherical basis function NNs, including the probabilistic NN, the modified probabilistic NN, and the general regression NN.

Intersociety Reports on Plastics in Building Activities - National Research Council (U.S.). Building Research Institute 1962

Preliminary Design Technical Report: bk. 2. Appendices A-E - Interstate Land Development Co 1978

Housing and Planning References - 1975

Technical Report - Tennessee Valley Authority 1959

General Technical Report SRS - 2003

Journal of the American Concrete Institute - American Concrete Institute 1985
Each number includes "Synopsis of recent articles."

Technical Report - United States Tennessee

Valley Authority - Tennessee Valley Authority 1949

ESSA Technical Report ERL-ESL - 1972

ASHRAE Handbook & Product Directory - American Society of Heating, Refrigerating and Air-Conditioning Engineers 1970

Rigidly Framed Earth Retaining Structures - Walid Aboumoussa 2014-06-23
Structures placed on hillsides often present a number of challenges and a limited number of economical choices for site design. An option sometimes employed is to use the building frame as a retaining element, comprising a Rigidly Framed Earth Retaining Structure (RFERS). The relationship between temperature and earth pressure acting on RFERS, is explored in this monograph through a 4.5 year monitoring program of a heavily instrumented in service structure. The data indicated that the coefficient of earth pressure behind the monitored RFERS had a strong linear correlation with temperature. The study also revealed that thermal cycles, rather than lateral earth pressure, were the cause of failure in many structural elements. The book demonstrates that depending on the relative stiffness of the retained soil mass and that of the structural frame, the developed lateral earth pressure, during thermal expansion, can reach magnitudes several times larger than those determined using classical earth pressure theories. Additionally, a nearly perpetual lateral displacement away from the retained soil mass may occur at the free end of the RFERS leading to unacceptable serviceability problems. These results suggest that reinforced concrete structures designed for the flexural stresses imposed by the backfill soil will be inadequately reinforced to resist stresses produced during the expansion cycles. Parametric studies of single and multi-story RFERS with varying geometries

and properties are also presented to investigate the effects of structural stiffness on the displacement of RFERS and the lateral earth pressure developed in the soil mass. These studies can aid the reader in selecting appropriate values of lateral earth pressure for the design of RFERS. Finally, simplified closed form equations that can be used to predict the lateral drift of RFERS are presented. KEY WORDS: Earth Pressure; Soil-Structure Interaction; Mechanics; Failure; Distress; Temperature; Thermal Effects; Concrete; Coefficient of Thermal Expansion; Segmental Bridges; Jointless Bridges; Integral Bridges; Geotechnical Instrumentation; Finite Element Modeling; FEM; Numerical Modeling.

Análisis de las patologías en las estructuras de Hormigón Armado - Hugo Donini 2021-07-20

"El presente libro es un modesto aporte en la comprensión de los fenómenos patológicos que agreden al hormigón armado y a las estructuras que con este material se construyen. Los primeros capítulos permiten introducir al lector en los conceptos generales del hormigón armado como material y sus características. En los siguientes capítulos se efectúa un análisis de los procesos físicos, mecánicos, químicos y biológicos que afectan la durabilidad del hormigón armado. La profundidad del desarrollo de los procesos procura ahondar en aquellos que no siempre son tratados con detalle y no en los que se poseen amplio desarrollo en la bibliografía disponible. Existe un apartado especial para las estructuras con requerimientos de estanqueidad, en el que se detallan algunas medidas para incrementar el control de la fisuración y su durabilidad. Al respecto, la fisuración, el control de las deformaciones y la acción del fuego tienen un tratamiento particular en los Capítulos 8, 9, 10 y 11. En el Capítulo 12 se mencionan algunos de los principales procesos patológicos ocurridos en las fundaciones. En el Capítulo 15, se hace hincapié

en las medidas de protección, refuerzo y reparación, al desarrollar conceptos como el recrecido de vigas y columnas, refuerzos con perfiles de acero o materiales como el CFRP. En el Capítulo 16 se incluye un apartado referido al uso de micropilotes inyectados para el recalce de fundaciones. Finalmente, en el Anexo I se desarrollan conceptos básicos sobre la elaboración y uso de hormigón autocompactante que tiene un ámbito de aplicación importante, entre otros, en el recrecido y refuerzo de las estructuras de hormigón armado. Se ha procurado amenizar la lectura del texto y plasmar los conceptos con soluciones numéricas, superando las 350 figuras y los 36 ejemplos de aplicación. No obstante, y a pesar de hacer mención a procesos patológicos, el texto procura ser precautorio, es decir, desarrolla contenidos para prevenir la ocurrencia de fallas y mecanismos que puedan agredir al hormigón."

Sealants in Construction - Jerome Klosowski 2016-01-05

Revised Bestseller Offers Broad-Based Knowledge to a Wide Range of Technical Professionals The definitive guide to sealing operations in construction, this latest edition of Sealants in Construction focuses on the most current technology, methods, applications, and standards relevant to sealant performance. Providing guided direction on how to choose and apply sealants, determine the properties of those sealants, and test and establish the cause of sealant failures, it addresses the design and engineering of structurally glazed systems and the chemistry and properties of various generic types including silicones, hybrids, and urethanes. Divided into two parts, the book first covers basic topics relevant to the practical side of construction sealants, and is geared toward those interested in choosing the proper sealant. The second half introduces advanced topics that are more technical, includes historical context along with practical examples, and is directed toward anyone requiring more depth in these

areas. An indispensable resource essential to your collection, this book: Explains the proper way to test sealants Evaluates standard test methods that are used with construction sealants Provides examples of emerging test methods appropriate for use with construction and highway sealants Outlines methods for calculating the required joint sizes in conventional sealing, glazing, and structural glazing Details the composition of the most popular types of sealants and hybrids Sealants in Construction covers the use of sealants in the construction industry and aims for the increased use of nondestructive test methods for all sealant applications and a more integrated quality management approach to sealing operations. This book is of interest to architects, contractors, engineers, sealant manufacturers, and students, and is relevant to a variety of technical disciplines.

Report No. FHWA-RD. - United States. Federal Highway Administration. Offices of Research and Development 1979

National Union Catalog - 1978

Includes entries for maps and atlases.

Design Criteria and Construction Standards - United States. National Aeronautics and Space Administration 1965

Advances in Structural Engineering - Vasant Matsagar 2014-12-12

The book presents research papers presented by academicians, researchers, and practicing structural engineers from India and abroad in the recently held Structural Engineering Convention (SEC) 2014 at Indian Institute of Technology Delhi during 22 – 24 December 2014. The book is divided into three volumes and encompasses multidisciplinary areas within structural engineering, such as earthquake engineering and structural dynamics, structural mechanics, finite element methods, structural vibration control, advanced cementitious and

composite materials, bridge engineering, and soil-structure interaction. Advances in Structural Engineering is a useful reference material for structural engineering fraternity including undergraduate and postgraduate students, academicians, researchers and practicing engineers.

Developments in Tall Buildings, 1983 - Lynn S. Beedle 1983

Western Machinery and Steel World - 1917

Annual Report - National Academy of Engineering - National Academy of Engineering 1973

Geological and Geotechnical Engineering in the New Millennium - National Research Council 2006-03-03

The field of geoengineering is at a crossroads where the path to high-tech solutions meets the path to expanding applications of geotechnology. In this report, the term "geoengineering" includes all types of engineering that deal with Earth materials, such as geotechnical engineering, geological engineering, hydrological engineering, and Earth-related parts of petroleum engineering and mining engineering. The rapid expansion of nanotechnology, biotechnology, and information technology begs the question of how these new approaches might come to play in developing better solutions for geotechnological problems. This report presents a vision for the future of geotechnology aimed at National Science Foundation (NSF) program managers, the geological and geotechnical engineering community as a whole, and other interested parties, including Congress, federal and state agencies, industry, academia, and other stakeholders in geoengineering research. Some of the ideas may be close to reality whereas others may turn out to be elusive, but they all present possibilities to strive for and potential

goals for the future. Geoengineers are poised to expand their roles and lead in finding solutions for modern Earth systems problems, such as global change, emissions-free energy supply, global water supply, and urban systems.

PCI Design Handbook - Prestressed Concrete Institute 1985

Principles and Practices for the Safe Processing of Foods - H J Heinz 2013-10-22

Principles and Practices for the Safe Processing of Foods presents information on the design, construction, and sanitary maintenance of food processing plants. This book also provides guidelines for establishing and implementing the Hazard Analysis Critical Control Points (HACCP) System and for training personnel in hygienic practices. This text is divided into 13 chapters and begins with the assessment of corporate policies concerning the controlled production of clean, wholesome foods in a sanitary manner. The next chapters deal with some of the requirements for safe food processing, including the establishment and implementation of HACCP rules, building status, sanitation, and personnel. A chapter briefly covers the structure of some microorganisms that affect safe food, such as viruses, bacteria, and fungi. This topic is followed by discussions of the biological factors underlying food safety, preservation, and stability; the principles and application of microbiological control methods; pathogenicity and pathogen profiles; and enzymes and their importance in food spoilage. The last chapters examine the aspects of microbiological safety in food preservation technologies and the criteria for ingredients and finished products. This book will prove useful to food manufacturers, policy makers, and public health workers.

Design and Construction of Joints in Concrete Structures - M. N. Bussell 1995

This title provides advice on provision, specification and construction of joints in in-situ concrete construction. It aims to help structural

designers make informed decisions about the provision of joints in concrete structures.

Post-tensioning in Buildings - fib Fédération internationale du béton 2005-01-01

The development of prestressing technology has constituted one of the more important improvements in the fields of structural engineering and construction. Referring particularly to post-tensioning applications, it is generally recognized how it opens the possibility to improve economy, structural behaviour and aesthetic aspects in concrete solutions. In spite of the simplicity of its basic concepts and well-known advantages, the application extent of post-tensioning solutions cannot be considered harmonized in the different areas and structural applications. In fact, for various reasons, it appears that the potential offered by prestressing is far from being fully exploited, especially in building structures field. In many cases where post-tensioning would provide a visibly superior solution, it happens after all that a more conventional non-prestressed solution is often selected. The main objective of this fib Technical Report is therefore to show the benefits of using post-tensioning for the more common practical applications in concrete buildings. The document is mainly addressed to architects, contractors and owners. It is also drafted with the goal of motivating building designers to use post-tensioning: basic design aspects related to prestressing effects and design criteria are summarized and conceptual design aspects are emphasized. A set of practical examples is presented, showing the adopted solutions and their advantages when meeting the requirements of specific problems. The selected examples were precisely not chosen because they are outstanding structures. As a matter of fact, post-tensioning principles and technology can be used in any structure, independently of its importance, covering a wide range of building structural applications, improving the structure quality and promoting

concrete as a structural material. The advantages of using post-tensioning, concerning structural behaviour, economy, detailing and constructive aspects, are illustrated by the presentation of several existing structures, most of them designed by Working Party members. General design calculations are not presented, but design results showing the improvement in structural behaviour are illustrated.

Facilities Engineering Handbook - United States. National Aeronautics and Space Administration 1971

Expansion Joints in Buildings - National Research Council 1974-02-01

Many factors affect the amount of temperature-induced movement that occurs in a building and the extent to which this movement can occur before serious damage develops or extensive maintenance is required. In some cases joints are being omitted where they are needed, creating a risk of structural failures or causing unnecessary operations and maintenance costs. In other cases, expansion joints are being used where they are not required, increasing the initial cost of construction and creating space utilization problems. As of 1974, there were no nationally acceptable procedures for precise determination of the size and the location of expansion joints in buildings. Most designers and federal construction agencies individually adopted and developed guidelines based on experience and rough calculations leading to significant differences in the various guidelines used for locating and sizing expansion joints. In response to this complex problem, Expansion Joints in Buildings: Technical Report No. 65 provides federal agencies with practical procedures for evaluating the need for through-building expansion joints in structural framing systems. The report offers guidelines and criteria to standardize the practice of expansion joints in buildings and decrease problems associated with the misuse of expansions joints.

Expansions Joints in Buildings: Technical Report No. 65 also makes notable recommendations concerning expansion, isolation, joints, and the manner in which they permit separate segments of the structural frame to expand and to contract in response to temperature fluctuations without adversely affecting the buildings structural integrity or serviceability.

Modern Steel Construction - 2005

General Technical Report FPL. - 1999

PCI Design Handbook - 1999

Accompanying CD-ROM contains files that compliment the text.

Recent Developments in Sustainable Infrastructure (ICRDSI-2020)—Structure and Construction Management - B. B. Das 2022-05-27

This book includes selected papers from the International Conference on Recent Developments in Sustainable Infrastructure (ICRDSI-2020) and consists of themes pertaining to structural engineering and construction technology and management.

Selected Water Resources Abstracts - 1990

Concrete and Masonry Movements - Jeffrey Brooks 2014-08-23

Widely used in the construction of bridges, dams and pavements, concrete and masonry are two of the world's most utilized construction materials. However, many engineers lack a proper understanding of the methods for predicting and mitigating their movements within a structure. Concrete and Masonry Movements provides practical methods for predicting and preventing movement in concrete and masonry, saving time and money in retrofitting and repair cost. With this book in hand, engineers will discover new prediction models for masonry such as: irreversible moisture expansion of clay bricks, elasticity, creep and shrinkage. In addition, the book

provides up-to-date information on the codes of practice. Provides mathematical modelling tools for predicting movement in masonry Up-to-date knowledge of codes of practice methods Clearly explains the factors influencing all types of concrete and masonry movement Fully worked out examples and set problems are included at the end of each chapter

Parking Structures - Anthony P. Chrest 2012-12-06

Drawing on the combined expertise of three of the world's leading parking structure experts, this updated edition provides the only single-source guide to planning, designing, and maintaining parking structures. It provides readers with design solutions, including material on how to ensure long-term durability, design for easy maintenance, select the most energy efficient lighting system, decide on the number and placement of entrances and exits, and avoid the most common construction pitfalls. Reflecting recent advances in technological innovations, this volume features significantly revised mterial and contains five new chapters on the Americans with Disabilities Act, lighting, graphics, seismic design, and designing for maintenance. The Second Edition of Parking Structures offers architects, engineers, parking facility owners, and contractors a unique and comprehensive guide to designing safe and effective parking structures.In addition, institutions providing education courses for professional registration in related fields will benefit from this timely, authoritative account.

ACI Manual of Concrete Practice - American Concrete Institute 2002