Durban and Surrounding Area

Corpus iuris civilis Romanorum

Expansion Joints in Buildings

Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks

The Temptation of Lila and Ethan

This book was written to make the material presented in my book, Stahlbetonbrucken, accessible to a larger number of engineers throughout the world. A work in English, the logical choice for this task, had been contemplated as Stahlbetonbrucken was still in its earliest stages of preparation. The early success of Stahlbetonbrucken provided significant impetus for the writing of Prestressed Concrete Bridges, which began soon after the publication of its predecessor. The present work is more than a mere translation of Stahlbetonbrucken. Errors in Stahlbetonbrucken that were detected after publication have been corrected. New material on the relation between cracking in concrete and corrosion of reinforcement, prestressing with unbonded tendons, skew-girder bridges, and cable-stayed bridges has been added. Most importantly, however, the presentation of the material has been extensively reworked to improve clarity and consistency. Prestressed Concrete Bridges can thus be regarded as a thoroughly new and improved edition of its predecessor.

Proceedings of Italian Concrete Days 2018

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 and regional 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. Expansion 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.

Design Fundamentals of Post-Tensioned Concrete Floors

Tropical Woody Rubiaceae

Examine many of the failed designs and inventions that led to greater improvements siting as examples the 1940 collapse of the Tacoma Narrows Bridge and the space shuttle disasters.

Design of Post-tensioned Slabs-on-ground

From Kiana Davenport, the bestselling author of Song of the Exile and Shark Dialogues, comes another mesmerizing novel about her people and her islands. Told in spellbinding and mythic prose, House of Many Gods is a deeply complex and provocative love story set against the background of Hawaii and Russia. Interwoven throughout with the indelible portrait of a native Hawaiian family struggling against poverty, drug wars, and the increasing military occupation of their sacred lands. Progressing from the 1960s to the turbulent present, the novel begins on the island of O‘ahu and centers on Ana, abandoned by her mother as a child. Raised by her extended family on the “lawless” Wai‘anae coast, west of Honolulu, Ana, against all odds, becomes a physician. While tending victims of Hurricane ‘Ilniki on the neighboring island of Ka‘u‘ai, she meets Nikolai, a Russian filmmaker with a violent and tragic past, who can confront reality only through his repertoire of lies. Yet he is dedicated to recording the ecological horrors in his homeland and across the Pacific. As their lives slowly and inextricably intertwine, Ana and Nikolai’s story becomes an odyssey that spans decades and sweeps the reader from rural Hawaii to the forbidding Arctic wastes of Russia; from the poverty-stricken Wai‘anae coast to the glittering harshness of “new Moscow” and the haunting, faded beauty of St. Petersburg. With stunning narrative inventiveness, Davenport has created a timeless epic of loss and remembrance, of the search for family and identity, and, ultimately, of the redemptive power of love.

House of Many Gods

Bilingual Education

"This specification provides minimum requirements for the selection, design, and installation of cementitious grouts for steel post-tensioned systems used in concrete construction. The purpose of the grout is to provide corrosion protection to the post-tensioning steel and in bonded post-tensioning (PT) applications to develop bond between the prestressing steel and the surrounding concrete.” -- From publisher

Bridge Maintenance, Safety, Management, Resilience and Sustainability

This book gathers the best peer-reviewed papers presented at the Italian Concrete Days national conference, held in Lecco, Italy, on June 14-15, 2018. The conference topics encompass the aspects of design, execution, rehabilitation and control of concrete structures, with particular reference to theory and modeling, applications and realizations, materials and investigations, technology and construction techniques. The contributions amply demonstrate that today's structural concrete applications concern not only new constructions, but more and more rehabilitation, conservation, strengthening and seismic upgrading of existing premises, and that the requirements put new aspects within the frame of sustainability, including environmental friendliness, durability, adaptability and reuse of works and / or materials. As such the book represents an invaluable, up-to-the-minute tool, providing an essential overview of structural concrete, as well as all new materials with cementitious matrices.

ASM Ready Reference

Song of the Exile

Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks contains the lectures and papers presented at the Eighth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016), held in Foz do Iguaçu, Paraná, Brazil, 26-30 June, 2016. This volume consists of a book of extended abstracts and a DVD containing the full papers of 369 contributions presented at IABMAS 2016, including the T.Y. Lin Lecture, eight Keynote Lectures, and 360 technical papers from 38 countries. The contributions deal with the state-of-the-art as well as emerging concepts and innovative applications related to all main aspects of bridge maintenance, safety, management, resilience and sustainability. Major topics covered include: advanced materials, ageing of bridges, assessment and evaluation, bridge codes, bridge diagnostics, bridge management systems, composites, damage identification, design for durability, deterioration modeling, earthquake and accidental loadings, emerging technologies, fatigue, field testing, financial planning, health monitoring, high performance materials, inspection, life-cycle performance and cost, load models, maintenance strategies, non-destructive testing, optimization strategies, prediction of future traffic demands, rehabilitation, reliability and risk management, repair, replacement, residual service life, resilience, robustness, safety and serviceability, service life prediction, strengthening, structural integrity, and sustainability. This volume provides both an up-to-date overview of the field of bridge engineering as well as significant contributions to the process of making more rational decisions concerning bridge maintenance, safety, serviceability, resilience, sustainability, monitoring, risk-based management, and life-cycle performance using traditional and emerging technologies for the purpose of enhancing the welfare of society. It will serve as a valuable reference to all involved with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering.

Technical Support Document for Water Quality-based Toxics Control

A quick and easy to use source for qualified thermal properties of metals and alloys. The data tables are arranged by material hierarchy, with summary tables sorted by property value. Values are given for a range of high and low temperatures. Short technical discussions at the beginning of each chapter are designed to refresh the reader’s understanding of the properties and units covered in that section.

Materia Medica of Ayurveda

Developments in International Bridge Engineering
Recommendations for Stay Cable Design, Testing and Installation

Journal officiel de la République française

This volume provides a comprehensive account of the implementation of bilingual education programs in countries throughout the world. For academics, graduate students, and policymakers, this volume clearly outlines the social and educational goals that can be achieved through bilingual education. It highlights the need to take account of the complex political context of inter-group relationships within which bilingual programs are inevitably embedded.

Success Through Failure

A comprehensive guide to the common practice and the latest developments in the field of post-tensioned concrete floor design. Fundamental design concepts, methodologies and construction practices and brings the concepts to the point of practical application. The presented concepts, practical hints and detailed comparison of computer aided design methods provide a solid base to your professional design efforts.

Merchant Vessels of the United States (including Yachts)

Unlisted Drugs

Performance-based Design of Structural Steel for Fire Conditions

Using one of the most famous works in classical music—Beethoven's Fifth Symphony—here is the perfect way to introduce a young child to the world of classical music. This charming and interactive picture book with its panel of 19 sound buttons is like a ticket to a concert hall, taking readers on a journey from the exciting first moment when the musicians begin tuning up to the end of the first movement (attention newcomers: don’t clap yet!). At each step of the way, readers learn the basics of classical music and the orchestra: What is a conductor? What is a symphony? Who was Beethoven? The different aspects of music: melody, harmony, tempo, theme. And the families of instruments—strings, woodwinds, brass, and percussion. But the best part is that every critical idea is illustrated in gorgeous sound. The sound panel allows readers to hear the different parts of the symphony and voices of the music—the famous beginning of the Fifth, what a clarinet sounds like, the difference between a violin and a viola, what a melody is, and what harmony is. Kids will want to match their voices to the A note that tunes the orchestra, dance to the rhythmic passages—and, of course, sing along to da-da-da-daah!

Merchant Vessels of the United States

Despite their utilitarian nature, many bridges constitute the most visually stunning structures of our cities and towns. In Bridgescape: The Art of Designing Bridges, Frederick Gottemoeller brings the aesthetic aspects of bridge design within the grasp of all architects, engineers, and designers. This innovative approach challenges the reader to design and build bridges that are both functional and pleasing to the eye. Gottemoeller demystifies the creative process by breaking down the bridge into its most fundamental elements—line, form, and placement in the site, as well as color, texture, and ornamentation. The author shows how to plan bridges that take into account symbolism, historical meaning, and our ability to understand the visual world. But Bridgescape is more than an introduction to the aesthetic and engineering aspects of building a bridge. The author also discusses the dynamics of involving local authorities and the community in bridge design. From highway to pedestrian bridges, this book offers realistic and enlightening solutions for incorporating visually distinctive bridges within real-world situations and contexts. Working from the “skeleton” of the bridge—its girders, piers, and abutments—to its decorative features—color, carving, and texture—the author offers practical, easy-to-understand guidelines that can be applied to even the smallest of bridge design projects. Just a few key factors can profoundly enhance a bridge’s appearance. Distinct from the technical books that separate architecture from engineering, Bridgescape offers a refreshing survey of the power of aesthetics in modern bridge design. A sixteen-page color insert enlivens the text, which is generously illustrated with over 280 photographs and drawings of bridges. Both engineers and architects will find Bridgescape an indispensable reference volume and an inspiring introduction to the aesthetic side of bridge engineering.

Life-Cycle Civil Engineering: Innovation, Theory and Practice

This manual contains updated information on the current practices in the use, design, and construction of post-tensioning. The 6th Edition has been extensively rewritten and expanded from the 5th Edition. The Manual contains 12 new chapters that give design guidance on modern applications of post-tensioning. All of the original chapters have been totally revised and modified to reflect the current industry practices. New topics include Seismic Design, Post-Tensioned Concrete Floors, Parking Structures, Slab-on-Ground, Bridges, Stay Cables, Storage Structures, Barrier Cables, Dynamic and Fatigue, Durability, Inspection and Maintenance, and Field and Plant Certification. The Manual provides the industry standard for design and construction of post-tensioned structures. This book is an invaluable resource for practicing engineers, architects, students, educators, contractors, inspectors, and building officials. The 6th Edition of the Post-Tensioning Manual provides basic information and the essential principles of post-tensioning.

Construction and Design of Cable-Stayed Bridges

Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks contains the lectures and papers presented at the Eighth International Conference on Bridge Maintenance, Safety and Management (IABMAS 2016), held in Foz do Iguaçu, Paraná, Brazil, 26-30 June, 2016. This volume consists of a book of extended abstracts and a DVD containing the full papers of 369 contributions presented at IABMAS 2016, including the T.Y. Lin Lecture, eight Keynote Lectures, and 360 technical papers from 38 countries. The contributions deal with the state-of-the-art as well as emerging concepts and innovative applications related to all main aspects of bridge maintenance, safety, management, resilience and sustainability. Major topics covered include: advanced materials, ageing of bridges, assessment and evaluation, bridge codes, bridge diagnostics, bridge management systems, composites, damage identification, design for durability,
deterioration modeling, earthquake and accidental loadings, emerging technologies, fatigue, field testing, financial planning, health monitoring, high performance materials, inspection, life-cycle performance and cost, load models, maintenance strategies, non-destructive testing, optimization strategies, prediction of future traffic demands, rehabilitation, reliability and risk management, repair, replacement, residual service life, resilience, robustness, safety and serviceability, service life prediction, strengthening, structural integrity, and sustainability. This volume provides both an up-to-date overview of the field of bridge engineering as well as significant contributions to the process of making more rational decisions concerning bridge maintenance, safety, serviceability, resilience, sustainability, monitoring, risk-based management, and life-cycle performance using traditional and emerging technologies for the purpose of enhancing the welfare of society. It will serve as a valuable reference to all involved with bridge structure and infrastructure systems, including students, researchers and engineers from all areas of bridge engineering.

**Prestressed Concrete Bridges**

Welcome to the Symphony

"An epic saga of seven generations of one family encompasses the tumultuous history of Hawaii as a Hawaiian woman gathers her four granddaughters together in an erotic tale of villains and dreamers, queens and revolutionaries, lepers and healers" (Publishers Weekly).

The Manual for Bridge Evaluation

**Post-tensioning Manual**

The Indian Evidence Act (1 of 1872)

**Post-Tensioned Buildings**

The book combines history with academic notes for use at the university level, presenting design examples from actual jobs with applications and detailing for the practicing engineer. Chapter 1 tells the history of post-tensioned concrete as only Ken Bondy can tell it. Chapters 2-8 are the notes Dirk Bondy uses to teach Design of Prestressed Concrete Structures at UCLA and Cal Poly-San Luis Obispo. Chapters 9-13 are design examples that address many of the decisions faced by practicing engineers on typical projects. Chapters 13-14 cover the art of detailing and observing the construction of post-tensioned concrete. This knowledge was obtained over many years of working on our own projects and listening and learning from the the pioneers of post-tensioned concrete. Chapter 15 covers the slab on grade industry, which represents more sales of post-tensioning tendons than all other post-tensioning applications combined. Chapter 16 discusses the challenging application of post-tensioning-external post-tensioning.

**Durban and Surrounding Area Telephone Directory**

Life-Cycle Civil Engineering: Innovation, Theory and Practice contains the lectures and papers presented at IALCCE2020, the Seventh International Symposium on Life-Cycle Civil Engineering, held in Shanghai, China, October 27–30, 2020. It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions, including the Fazlur R. Khan lecture, eight keynote lectures, and 221 technical papers from all over the world. All major aspects of life-cycle engineering are addressed, with special emphasis on life-cycle design, assessment, maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards. It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life-cycle of civil infrastructure systems, including students, researchers, engineers and practitioners from all areas of engineering and industry.

**Globalisation and Poverty**

MOP 114 presents a new method developed to improve the design of structural steel for fire conditions.

**Field Procedures Manual for Unbonded Single Strand Tendons**

For practicing engineers, students, contractors, building officials, plan checkers, and researchers. Drawing upon thirty–two years of world wide experience, topics in post-tensioning are covered in-depth and taken to the point of practical application. ? Covers US and European Codes for Post-Tensioning Design ? Unbonded and Bonded (Grouted) Systems ? Construction Technology and Design Procedures ? Post-Tensioned Floor Design ? Step-by-Step calculation ? Post-Tensioned Beam Design ? Step-by-Step Calculation ? Software and Design Tools; Design Flow Charts and Examples ? Stress Losses; Deflections; Cracking and Crack Width ? Application of Finite Elements to Design ? Application of Building Information Modeling (BIM) to Post-Tensioning The book assumes a basic knowledge of conventionally reinforced concrete design. Founded on this knowledge, the material presented covers the full range of post-tensioning principles, including the know-how necessary for expedient and efficient designs. The focus of the book is on the science of engineering, while covering in detail the art of post-tensioning practice. Emphasis is on the primary objectives of design for serviceability? and ?safety,? and how to achieve them, while describing the diversity in local or traditional practice. The material is organized to benefit a wide audience of designers, as well as plan checkers and reviewers, in particular to facilitate the process of project approval. The book comes in two versions: a US Edition, and an International Edition. The US Edition uses the US system of units (lb, in) that is common in US construction, along with the equivalent values in SI units (N, mm). It covers both ACI/IBC and EC2, which in addition to being mandatory in a large number of European countries is being used more and more as a basis for other building codes. The International Edition of the book covers the same topics according to both ACI/IBC and EC2, in the SI (N, mm) system of units. In addition, where applicable, it includes the recommendations of TR43, a publication of the UK Concrete Society that provides recommendations for design and construction of post-tensioned buildings www.PT-Structures.com www.adaptsoft.com

**Specification for Grouting of Post-tensioned Structures**
Post-Tensioned Concrete Principles and Practice: Fourth Edition

In this epic, original novel in which Hawaii’s fierce, sweeping past springs to life, Kiana Davenport, author of the acclaimed Shark Dialogues, draws upon the remarkable stories of her people to create a timeless, passionate tale of love and survival, tragedy and triumph, survival and transcendence. In spellbinding, sensual prose, Song of the Exile follows the fortunes of the Meahuna family—and the odyssey of one resilient man searching for his soul mate after she is torn from his side by the forces of war. From the turbulent years of World War II through Hawaii’s complex journey to statehood, this mesmerizing story presents a cast of richly imagined characters who rise up magnificent and forceful, redeemed by the spiritual power and the awesome beauty of their islands.

Maintenance, Monitoring, Safety, Risk and Resilience of Bridges and Bridge Networks

The consequences of globalization for the world’s poor are uncertain and fierce rhetoric is dividing its supporters and detractors. The channels of effect of essentially macroeconomic shocks on the microeconomic position of individuals and households in poor countries are many and various. This book addresses three core issues: 1) what are the main channels of effect? 2) what are the lessons to be learned from policy measures to alleviate negative poverty consequences? and 3) do the proposed analytical approaches assist in providing a monitoring capability? This volume assesses the more easily quantifiable effects resulting from price and quantity responses in the goods and labour markets. It includes studies of Colombia, Ghana, India, Nepal, Bangladesh and Vietnam. It uses key analytical approaches, most of which are based on numerical simulation methods employing models with different levels of complexity. These models capture the features of an economy, how it functions, and how it might respond to globalization shocks. The most important collective contribution of the authors is their establishment of directions and magnitudes of effect, based on empirical evidence.