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Recommended Practice for Design and Construction Butterworth-Heinemann

Sustainability is a crucial concept.

Sustainability was first introduced in the fib by creating a Special Activity Group under the convenorship of Prof Sakai. This group encouraged and helped all fib commissions to create their own groups dealing with sustainability. The fib Commission 6 “Prefabrication” took up this challenge and

created a Task Group called “Sustainability of Structures with Precast Elements” in 2012. The group was created as a joint group with PCI (Precast Concrete Institute of USA), with the then-active fib Commission 3 “Environmental aspects of design and construction”, and the fib’s SAG8 on Sustainability. Therefore, this Bulletin 88 is a joint publication between PCI and fib. The aim of the work was to gather and study the most recent work that has been developed regarding sustainability – and more particularly Life Cycle Assessment - of structures in which precast elements are used. The final aim of the group would be to provide recommendations for the study and assessment of structures built with precast elements. It will cover all aspects of this kind of structure, from planning, design, execution, use, maintenance and remedial activities to deconstruction, reuse,

demolition and recycling. The fib holds sustainability as a high priority, which triggered the creation of a new Commission 7 “Sustainability” during the 2015 fib commissions reorganisation. This commission has been chaired since then by Prof Hájek. Sustainability concepts were already introduced in the Model Code 2010 and are a key part in the elaboration of the Model Code 2020. Experts from many parts of the world contributed to this fib Bulletin 88 which gives the document a broad overview of sustainability sensibilities across different continents. Bulletin 88 starts with a description of the importance of environmental concepts and developments in the world today and the reason why sustainability is a crucial concept that will be even more important in the future. The document then focuses on the different

advances of standards and regulations that have been developed or are in the process of being implemented. ISO, European regulations, North American regulations, Brazilian implementation in real precast companies and the developments of the fib Model Codes have been considered in this bulletin. After that, the bulletin examines life cycle aspects of precast structures, taking former fib bulletins as a basis. Then, it moves on to an in-depth study of specific sustainability aspects of precast structures. Then, the bulletin deals with the special methodologies and tools that are available around the world to handle sustainability in general and with precast structures in particular. A selection of tools is described in this chapter. The Task Group also developed proposals about how to deal with the sustainability of precast structures. Some of the proposals are described conceptually in the text. The final chapter compiles several case studies or examples of sustainability applications of precast structures. The examples differ and are grouped by category: buildings, infrastructure and special works.v The task group continues to work on developing other documents that will focus on the detailed practical application of some of the sustainability models described in this document.

Application of Fiber Reinforced Polymer Composites to the Highway Infrastructure John Wiley & Sons
Rising awareness of and increased attention to sexual harassment has resulted in momentum to implement sexual harassment prevention efforts in higher education institutions. Work on preventing sexual harassment is an area that has recently garnered a lot of attention, especially around education and programs that go beyond the standard anti-sexual harassment trainings often used to comply with legal requirements. On April 20-21, 2021, the National Academies of Sciences, Engineering, and Medicine hosted the workshop Developing Evaluation Metrics for Sexual Harassment Prevention Efforts. The workshop explored approaches and strategies for evaluating and measuring the effectiveness of sexual harassment interventions being implemented at higher education institutions and research and training sites, in order to assist institutions in transforming promising ideas into evidence-based best practices. Workshop participants also addressed methods, metrics, and measures that could be used to evaluate sexual harassment prevention efforts that lead to change in the organizational climate and culture and/or a change in behavior among community members. This publication summarizes the presentations and discussion of the workshop.

Precast and Prestressed Concrete Amer Inst of Steel Construction

"The BIM Handbook is an extensively researched and meticulously written book, showing evidence of years of work rather than something that has been quickly put together in the course of a few months. It brings together most of the current information about BIM, its history, as well as its potential future in one convenient place, and can serve as a handy reference book on BIM for anyone who is involved in the design, construction, and operation of buildings and needs to know about the technologies that support it. The need for such a book is indisputable, and it is terrific that Chuck Eastman and his team were able to step up to the plate and make it happen. Thanks to their efforts, anyone in the AEC industry looking for a deeper understanding of BIM now knows exactly where to look for it." —AECbytes book review, August 28, 2008 (www.aecbytes.com/review/2008/BIM_Handbook.html) DISCOVER BIM: A BETTER WAY TO BUILD BETTER BUILDINGS Building Information Modeling (BIM) offers a novel approach to design, construction, and facility

management in which a digital representation of the building process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Second Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Completely updated material covering the current practice and technology in this fast-moving field Expanded coverage of lean construction and its use of BIM, with special focus on Integrated Project Delivery throughout the book New insight on the ways BIM facilitates sustainable building New information on interoperability schemas and collaboration tools Six new case studies Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Second Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full

advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Color and Texture in Architectural Concrete Erector's Manual Standards and Guidelines for the Erection of Precast Concrete Products Specifications for Structural Concrete, ACI 301-05, with Selected ACI References Field Reference Manual

Após 17 anos a obra recebe uma nova edição revigorada e ampliada. Traz a última atualização da principal norma brasileira sobre o assunto, a NBR-9062 – Projeto e execução de estruturas de concreto pré-moldado. Além da atualização técnica, no decorrer do período ganharam importância novas questões, como as relacionadas à sustentabilidade. Se a industrialização da construção e a racionalização da execução de estruturas de concreto tiveram grande impulso nos anos 1960, 1970, por outro lado, conduziram a uma crítica mesmice arquitetônica. Em razão disso, surge, avançando, um “ novo

concreto pré-moldado ” que permite maior flexibilidade e renovação arquitetônica. As potencialidades do concreto pré-moldado são pouco exploradas no Brasil, apesar do intenso processo de urbanização da população e adensamento das cidades. Esta obra procura motivar os leitores para sua aplicação, rompendo um círculo vicioso: não se constrói porque não se têm insumos tecnológicos (conhecimentos, experiência, equipamentos e dispositivos auxiliares) e não se têm os insumos tecnológicos porque não se constrói. Com mais de 400 páginas, o livro está dividido em 4 partes e 13 capítulos, compreendendo desde os fundamentos do concreto pré-moldado, prosseguindo pelas aplicações em edifícios, pontes e outras construções civis e completando com os elementos de produção especializada. Na última parte são apresentados anexos, que entre outros assuntos, incluem exemplos numéricos. Este livro é direcionado a alunos e profissionais de engenharia civil e arquitetura, com ênfase ao

projeto das estruturas formadas por elementos pré-moldados.

Designing with Structural Steel

FIB - Féd. Int. du Béton

Specifiers, producers, testing labs, inspection consultants, teachers, designers, and quality technicians should all have a copy of this QC manual.

These standards and the accompanying commentary will serve as a strong foundation for a plant's quality system for the manufacture of structural precast concrete products and for the manufacture of structural precast concrete products with architectural finishes

PCI Manual for the Design of Hollow Core Slabs Prestressed Concrete Inst

Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors,

vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and

data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use

Volume 1 John Wiley & Sons
Originally published in 1926 [i.e. 1927] under title: Steel construction; title of 8th ed.: Manual of steel construction.
Seismic Behavior of Moment-resisting Steel Column Bases
Transportation Research Board Erector's Manual Standards and Guidelines for the Erection of Precast Concrete Products Specifications for Structural Concrete, ACI 301-05, with Selected ACI References Field Reference Manual American Concrete Institute Manual for Quality Control for Plants and Production of Structural Precast Concrete Products
From Engineering Seismology to

Performance-Based Engineering
CRC Press

During the mid-20th century, with the rise of industrial prefabrication, precast concrete sandwich panels started being used as cladding for buildings. Since then, society and construction industry have become increasingly aware of energy efficiency in all fields, including affordability and sustainability consciousness, while maintaining the buildings' durability. As such, buildings have been subject to increasingly stringent requirements which has kept the technology of sandwich panels continually at the forefront of building envelope evolution. Nowadays, sandwich panels have reached the highest standards of functional performance and aesthetic appeal. In building construction, these sandwich panel attributes combine with the well-known advantages of prefabrication including

structural efficiency, flexibility in use, speed of construction, quality consciousness, durability, and sustainability. Sandwich panels have gained more exposure, thus representing quite a significant application within the prefabrication industry and a vital component of the precast market. The fib Commission "Prefabrication" is eager to promote the development of all precast structural concrete products and to share the knowledge and experience gained, to aid with practical design and construction. By issuing this comprehensive overview, "Guide to Good Practice", a better understanding of design considerations, structural analysis, building physics, use of materials, manufacturing methods, equipment usage and field performance will be provided. This document contains the latest information currently available worldwide.

The Commission is particularly proud that this document is a result of close cooperation with PCI and that it is published by both the fib and PCI. This cooperation started six years ago, first with comparing the different approaches to several issues, then progressively integrating and producing common documents, like this one, that hasn't yet been treated in a specific Guide by either body. This Guide is intended to be the reference document to all who are interested in utilising the advantages of Precast Sandwich wall panels. In conjunction with the previously published Planning and Design Handbook on Precast Building Structures, the designer will have significant resources to integrate sandwich wall panels into any applicable structure. **Standards and Guidelines for the Erection of Precast Concrete Products** American Concrete Institute

Revised edition of: Construction management / Daniel W. Halpin, Bolivar A. Senior. 2011. *Construction Management* FIB - Féd. Int. du Béton
Discover BIM: A better way to build better buildings
Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational issues associated with its

implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers

to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Specifications for Structural Concrete, ACI 301-05, with Selected ACI References McGraw Hill Professional

Part 1 Focuses on planning and starting your business. This section will help you formulate a business plan, choose a business structure, understand licensing and insurance requirements and gain basic management and marketing skills. Part 2 Covers fundamentals you will need to know in order to operate a successful construction business. This section covers estimating, contract management, scheduling, project management, safety and environmental responsibilities and building good relationships with employees, subcontractors and

customers. Part 3 Provides valuable information to assist you in running the administrative function of your business. Financial management, tax basics, and lien laws are covered. Effective management of these areas of business is vital and failure proper attention can cause serious problems.

Sustainability of precast structures

CRC Press

This multi-contributor book provides comprehensive coverage of earthquake engineering problems, an overview of traditional methods, and the scientific background on recent developments. It discusses computer methods on structural analysis and provides access to the recent design methodologies and serves as a reference for both professionals and researchers. *Precast Concrete Handbook* FIB - International Federation for Structural Concrete

This manual is intended to serve as a reference. It will provide technical information which will enable Manual users to perform the following activities: Describe typical erection practices for girder bridge superstructures and recognize critical construction stages. Discuss typical practices for evaluating structural stability of girder bridge superstructures during early stages of erection and throughout bridge construction. Explain the basic concepts of stability and why it is important in bridge erection. Explain common techniques for performing advanced stability analysis along with their advantages and limitations. Describe how differing construction sequences affect superstructure stability. Be

able to select appropriate loads, load combinations, and load factors for use in analyzing superstructure components during construction. Be able to analyze bridge members at various stages of erection. Develop erection plans that are safe and economical, and know what information is required and should be a part of those plans. Describe the differences between local, member and global (system) stability. [A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors](#) Precast/Prestressed Concrete Institute Building Product Models thoroughly presents the concepts, technology, and methods now used to work out what will become the building product model - a new,

digital representation for architecture, civil engineering, and building construction. Organized into three sections (history, current tools and concepts, and existing efforts and research issues), this resource provides the field of building product modeling with a standard reference as well as a single, comprehensive text for university courses. Until now, all the efforts in building modeling have been reported in research journals and conference proceedings or been made available as draft standards on the Internet. Building Product Models is the only book available on this vital field, bringing together essential aspects of major efforts from the early 1970s to the present.

Erector's Manual Oficina de Textos

The Sixth Edition provides easy-to-follow design procedures, newly formatted numerical examples, and both new and updated design aids using ASCE 7-02, ACI 318-02, the third edition of the AISC Steel Manual and IBC 2003. It also includes new and updated information on 15 foot wide double tee load tables, seismic design, torsion and shear design, load and resistance factors, headed stud connection design, and fire resistance. AASHTO

Get the updated industry standard for a new age of construction! For more than fifty years, Olin's Construction has been the cornerstone reference in the field for architecture and construction professionals and students. This new edition is an invaluable resource that will provide in-depth coverage for decades to come. You'll find the most up-to-date principles, materials, methods, codes, and standards used in the design and construction of contemporary concrete, steel,

masonry, and wood buildings for residential, commercial, and institutional use. Organized by the principles of the MasterFormat® 2010 Update, this edition: Covers sitework; concrete, steel, masonry, wood, and plastic materials; sound control; mechanical and electrical systems; doors and windows; finishes; industry standards; codes; barrier-free design; and much more Offers extensive coverage of the metric system of measurement Includes more than 1,800 illustrations, 175 new to this edition and more than 200 others, revised to bring them up to date Provides vital descriptive information on how to design buildings, detail components, specify materials and products, and avoid common pitfalls Contains new information on sustainability, expanded coverage of the principles of construction management and the place of construction managers in the construction process, and construction of long span structures in concrete, steel, and wood The most comprehensive text on the subject, Olin's

Construction covers not only the materials and methods of building construction, but also building systems and equipment, utilities, properties of materials, and current design and contracting requirements. Whether you're a builder, designer, contractor, or manager, join the readers who have relied on the principles of Olin's Construction for more than two generations to master construction operations.

fundamentos e aplicações

Prestressed Concrete Inst
The Definitive Guide to Steel
Connection Design Fully
updated with the latest AISC
and ICC codes and
specifications, Handbook of
Structural Steel Connection
Design and Details, Second
Edition, is the most
comprehensive resource on
load and resistance factor
design (LRFD) available. This
authoritative volume surveys
the leading methods for
connecting structural steel
components, covering state-of-

the-art techniques and
materials, and includes new
information on welding and
connections. Hundreds of
detailed examples,
photographs, and
illustrations are found
throughout this practical
handbook. Handbook of
Structural Steel Connection
Design and Details, Second
Edition, covers: Fasteners
and welds for structural
connections Connections for
axial, moment, and shear
forces Welded joint design
and production Splices,
columns, and truss chords
Partially restrained
connections Seismic design
Structural steel details
Connection design for special
structures Inspection and
quality control Steel deck
connections Connection to
composite members
Pressure Vessel Design Manual CRC
Press

First Published in 1999: The Bridge
Engineering Handbook is a unique,
comprehensive, and state-of-the-
art reference work and resource
book covering the major areas of
bridge engineering with the theme
"bridge to the 21st century."
*Manual for Quality Control for
Plants and Production of
Architectural Precast Concrete
Products* John Wiley & Sons
The first edition of this
comprehensive work quickly
filled the need for an in-depth
handbook on concrete
construction engineering and
technology. Living up to the
standard set by its bestselling
predecessor, this second
edition of the Concrete
Construction Engineering
Handbook covers the entire
range of issues pertaining to
the construction