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MCLEAN MALLORY

Monthly Summary of Foreign Commerce of the United States American Concrete Institute

This book provides an up-to-date survey of durability issues, with a particular focus on specification and design, and how to achieve durability in actual concrete construction. It is aimed at the practising engineer, but is also a valuable resource for graduate-level programs in universities. Along with background to current philosophies it gathers together in one useful reference a summary of current knowledge on concrete durability, includes information on modern concrete materials, and shows how these materials can be combined to produce durable concrete. The approach is consistent with the increasing focus on sustainability that is being addressed by the concrete industry, with the current emphasis on 'design for durability'.

Geological Survey Water-supply Paper American Concrete Institute

The industry-standard guide to designing well-performing buildings Architectural Detailing systematically describes the principles by which good architectural details are designed. Principles are explained in brief, and backed by extensive illustrations that show you how to design details that will not leak water or air, will control the flow of heat and water vapor, will adjust to all kinds of movement, and will be easy to construct. This new third edition has been updated to conform to International Building Code 2012, and incorporates current knowledge about new material and construction technology. Sustainable design issues are integrated where relevant, and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns. Regulatory topics are primarily focused on the US, but touch on other jurisdictions and geographic settings to give you a well-rounded perspective of the art and science of architectural detailing. In guiding a design from idea to reality, architects design a set of details that show how a structure will be put together. Good details are correct, complete, and provide accurate information to a wide variety of users. By demonstrating the use of detail patterns, this book teaches you how to design a building that will perform as well as you intend. Integrate appropriate detailing into your designs Learn the latest in materials, assemblies, and construction methods Incorporate sustainable design principles and current building codes Design buildings that perform well, age gracefully, and look great Architects understand that aesthetics are only a small fraction of good design, and that stability and functionality require a deep understanding of how things come together. Architectural Detailing helps you bring it all together with a well fleshed-out design that communicates accurately at all levels of the construction process.

Foundation and Anchor Design Guide for Metal Building Systems CRC Press

The comprehensive guide to construction tolerances, newly revised and updated How much may a steel frame be out of plumb? What are the expected variations of a precast concrete panel? What is required to successfully detail finish materials on masonry? Updating and expanding on its popular first edition, the Handbook of Construction Tolerances, Second Edition remains the only comprehensive reference to the thousands of industry standard tolerances for the manufacture, fabrication, and installation of construction materials and components-- including all-important accumulated dimensional variations. Covering new materials and techniques developed since the book was first published, the Second Edition of this easy-to-use reference features: * More than 100 drawings illustrating the tolerance concepts * New sections on measuring compliance with tolerance standards; right-of-way construction; autoclaved aerated concrete; tilt-up concrete panels; interior stone wall cladding; structural insulated panels; decorative architectural glass; laminated architectural flat glass and bent glass * New guidelines on how to incorporate tolerance requirements in drawings and specifications * New information on how to apply tolerance information during contract administration With the Handbook, architects, engineers, contractors, interior designers, lawyers, and others involved in the construction industry will be armed with the information they need to design and detail more accurately, write better specifications, establish normal practice and standards of care, supervise construction, settle worksite disputes, and save time and money at every stage of building.

Structural Design fib Fédération internationale du béton

Accompanied by annual issue in 1944 and by quarterly cumulative issues beginning in 1945.

Climatological Data American Concrete Institute

fib Bulletin 73: Tall Buildings is the result of a collaboration between the fib and MPA The Concrete Centre (UK). Task Group 1.6 High-rise buildings, within fib Commission 1: Structures, was drawn together with a mandate to write about the experience and know-how pertinent to the development, design and construction of tall concrete buildings. The group's findings are presented in this state-of-the-art report. Tall buildings are a unique challenge to engineers, even to those with extensive experience of low-rise structures. The bulletin explains the critical interfaces with other professionals, for example architects, building services engineers, façade and lift specialists, geotechnical engineers and wind specialists, highlighting

how these parties interact with engineers and can influence and guide the development of the structural solution. The key factors in choosing the most appropriate structural system are discussed. The bulletin covers the criteria used to select the most economical structural elements including the foundations, the vertical elements and the floor slabs. Examples of common construction methods are presented and their effects on the structural engineering design are discussed. Tall buildings can undergo significant deformation during their construction and service life. These movements need to be understood by the designer and potentially compensated for in the design and during construction. One of the main particularities of the design of tall buildings is the dominance of the lateral loading from wind and seismic actions. The bulletin provides a discussion of these important topics and sets out the current approach taken by experienced engineers. Designers of tall buildings also need to understand the dynamic behaviour of the structure and confine the motion of the building to within acceptable limits. Approaches to damping and dynamic performance are discussed and guidance provided on the appropriate occupant comfort limits.

Statistical Register for ... and Previous Years CRC Press

Collection of the monthly climatological reports of the United States by state or region with monthly and annual National summaries.

Infrared Astronomical Satellite (IRAS) Catalogs and Atlases: The Point source catalog declination range 00 [greater than delta greater than] -300 Springer

This practical guide serves as the industry standard for foundation design of metal building systems.

Specifications for Tolerances for Concrete Construction and Materials and Commentary John Wiley & Sons

Improve the Quality of Concrete, Improve the Quality of Construction Quality measurement is not prevalent in the concrete industry and quality investment is not seen as potentially generating a positive return. Improving Concrete Quality examines how and why concrete quality should be measured, and includes instruction on developing specifications with the aim of improving concrete quality. Reduce Concrete Variability: Reduce Costs and Increase Volume The first part of the book considers the tangible and intangible benefits of improved quality. The later chapters explore concrete strength variability in detail. It provides a greater grasp of the variation in concrete, as well as a deeper understanding of how material variability affects concrete performance. The author discusses the components of variability (material, manufacturing, testing) and provides steps to measuring and reducing variability to improve the quality of concrete. The text also contains a chapter on data analysis for quality monitoring and test results. Come Away with Practices and Tools That Can Be Applied Immediately: Provides techniques and how specifications can improve concrete quality Offers a clear understanding of the link between the materials (cement, SCM, aggregate, water, air), manufacturing, testing variability, and concrete quality Includes information on analyzing test data to improve quality Improving Concrete Quality quantifies the benefits of improved quality, and introduces novel ways of measuring concrete quality. This text is an ideal resource for quality personnel in the concrete industry. It also benefits architects, engineers, contractors, and researchers.

Handbook of Construction Tolerances American Concrete Institute

This textbook imparts a firm understanding of the behavior of prestressed concrete and how it relates to design based on the 2014 ACI Building Code. It presents the fundamental behavior of prestressed concrete and then adapts this to the design of structures. The book focuses on prestressed concrete members including slabs, beams, and axially loaded members and provides computational examples to support current design practice along with practical information related to details and construction with prestressed concrete. It illustrates concepts and calculations with Mathcad and EXCEL worksheets. Written with both lucid instructional presentation as well as comprehensive, rigorous detail, the book is ideal for both students in graduate-level courses as well as practicing engineers.

Specifications for Structural Concrete American Concrete Institute

The full texts of Armed Services and othr Boards of Contract Appeals decisions on contracts appeals.

Climatological Data John Wiley & Sons

Mortality Statistics McGraw Hill Professional

Tall buildings

Preliminary Classified Index of Technical Oil Mission Reels 1-259 and 273-279

Guide for Concrete Floor and Slab Construction

Standard Tolerances for Concrete Construction and Materials (ACI 117-90) and Commentary (ACI 117R-90)

Fishery Bulletin

Daily Series, Synoptic Weather Maps

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

Durability of Concrete