Icri Guideline 03732 Concrete Surface Profile

Journal of Protective Coatings & Linings
Building Code Requirements for Structural Concrete (ACI 318M-08) and Commentary
ACI 546R-14 Guide to Concrete Repair
Concrete Construction Engineering Handbook
Code Requirements for Environmental Engineering Concrete Structures (ACI 350-01) and Commentary (ACI 350R-01)
Guide for Concrete Slabs That Receive Moisture-Sensitive Flooring Materials
Concrete Surface Engineering
よくわかる「ポリマーセメントコンクリート/ポリマーコンクリート」の基本と応用
Pipeline Infrastructure Renewal and Asset Management
Design of FRP Systems for Strengthening Concrete Girders in Shear
8th PhD Symposium in Copenhagen Denmark
Failure, Distress and Repair of Concrete Structures
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Bridge and Highway Structure Rehabilitation and Repair
10th International Conference on FRP Composites in Civil Engineering
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ACI 440. 2R-17 Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures
Hydrodemolition of Concrete Surfaces and Reinforced Concrete
Bond Behaviour of FRP in Structures
Failure Analysis of Paints and Coatings
3rd fib Congress Washington USA
Fifth International Workshop on High Performance Fiber Reinforced Cement Composites (HPFRCC5)
Composite Construction in Steel and Concrete 9
PCI Journal
Fiber-reinforced Polymer (FRP) Reinforcement for Concrete Structures
Concrete International
Developments in Fiber-Reinforced Polymer (FRP) Composites for Civil Engineering
Effects of Substances on Concrete and Guide to Protective Treatments
Test of Prestressed Concrete T-beams Retrofitted for Shear and Flexure Using Carbon Fiber

Reinforced Polymers
Seventh International Symposium on Utilization of High Strength/ High Performance Concrete
Concrete Solutions 2014
Concrete Repair Bulletin
Standard Specifications for Highway and Structure Construction
Field Applications of FRP Reinforcement
Guide to Formwork for Concrete
Trenchless Technology: Pipeline and Utility Design, Construction, and Renewal, Second Edition
Plasticity in Reinforced Concrete

GILLIAN JAKOB

Journal of Protective Coatings & Linings
American Concrete Institute
This volume highlights the latest advances, innovations, and applications in the field of FRP composites and structures, as presented by leading international researchers and engineers at the 10th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE), held in Istanbul, Turkey on December 8-10, 2021. It covers a diverse range of topics such as All FRP structures; Bond and interfacial stresses; Concrete-filled FRP tubular members; Concrete structures reinforced or pre-

stressed with FRP; Confinement; Design issues/guidelines; Durability and long-term performance; Fire, impact and blast loading; FRP as internal reinforcement; Hybrid structures of FRP and other materials; Materials and products; Seismic retrofit of structures; Strengthening of concrete, steel, masonry and timber structures; and Testing. The contributions, which were selected by means of a rigorous international peer-review process, present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists. *Building Code Requirements for Structural Concrete (ACI 318M-08) and Commentary* Elsevier State-of-the-Art Bridge and Highway Rehabilitation and Repair Methods This authoritative volume offers up-to-date guidance on the latest design techniques, repair methods, specialized software, materials, and advanced maintenance procedures for bridges and highway structures. Focusing on both traditional and nontraditional design issues, Bridge and Highway Structure Rehabilitation and Repair clarifies the most recent AASHTO bridge design codes and discusses new analytical and design methodologies, such as the application of load and resistance factor design (LRFD). A

wealth of concise explanations, solved examples, and in-depth case studies are included in this comprehensive resource. COVERAGE INCLUDES: Diagnostic design and selective reconstruction Bridge failure studies and safety engineering Analytical approach to fracture and failure Load and resistance factor rating (LRFR) and redesign Application of LRFD and LRFR methods Inspection and structural health monitoring Bridge widening and replacement strategies Conventional repair methods Advanced repair methods Concrete repair methods Extreme events of flood scour and countermeasures design Guidelines for seismic design and retrofit methods

ACI 546R-14 Guide to Concrete Repair

Springer Nature Composite Construction in Steel and Concrete IX The highly successful International Conference series on Composite Construction in Steel and Concrete is a major forum for researchers, practitioners, and engineers to share and discuss their research, practical experience and innovations related to composite constructions in steel and concrete. Composite Construction is a key consideration in the design of buildings and infrastructure. Significant advances in research and development have

increased the knowledge of the structural performance of composite structures. Some areas are becoming well understood and implemented in the design practice, codes and standards worldwide, while others like, e.g., application of high-performance materials or dismountable and reusable composite members need further studies; trends that are reflected by the conference papers. The 62 contributions contained in this book cover a wide variety of topics, including composite beams, composite columns, composite decks, joints, shear connections, fire behavior, seismic behavior, fatigue and fracture, codification, composite bridges, innovative hybrid structures, numerical investigations and practical applications. The Papers are peer-reviewed by the Scientific Board and may be adapted based on the outcome of the discussions during the conference. This book therefore summarizes the state-of-the-art in composite construction worldwide, as presented at the 9th International Conference on Composite Construction in Steel and Concrete hosted by the Ruhr-Universität Bochum, University of Stuttgart, RPTU Kaiserslautern-Landau and University of Luxembourg, representing the work of authors from 18 countries.

Concrete

Construction Engineering Handbook J. Ross Publishing □□
Code Requirements for Environmental Engineering Concrete Structures (ACI 350-01) and Commentary (ACI 350R-01) CRC Press
TRB's National Cooperative Highway Research Program (NCHRP) Report 678: Design of FRP Systems for Strengthening Concrete Girders in Shear offers suggested design guidelines for concrete girders strengthened in shear using externally bonded Fiber-Reinforced Polymer (FRP) systems. The guidelines address the strengthening schemes and application of the FRP systems and their contribution to shear capacity of reinforced and prestressed concrete girders. The guidelines are supplemented by design examples to illustrate their use for concrete beams strengthened with different FRP systems. Appendix A of NCHRP Report 678, which contains the research agency's final report, provides further elaboration on the work performed in this project. Appendix A: Research Description and Findings, is only available online.
Guide for Concrete Slabs That Receive Moisture-Sensitive Flooring Materials
FIB - Féd. Int. du Béton
.".. papers presented at the ACI Fall 2003 Convention, in Boston,

Massachusetts"--P. iii.

Concrete Surface Engineering FIB - Féd. Int. du Béton

A fully updated guide to no-dig engineering This thoroughly revised reference covers the latest techniques and materials for high-demand trenchless technology in underground projects. The book offers complete details on new tools, techniques, and analysis methods that can save you thousands of dollars in costs and weeks of surface disruptions. Written by recognized experts in the field, Trenchless Technology Pipeline and Utility Design, Construction, and Renewal, Second Edition offers clear explanations of the various trenchless technologies available—from pipe ramming, microtunneling, horizontal auger boring, horizontal directional drilling, pilot tube, direct pipe; to cured-in-place pipe, spray applied pipe lining, pipe replacement (bursting) and sliplining. Readers will get complete instruction on how to choose the best method for the project at hand. Refreshed throughout to reflect current tools, techniques, and regulations Explains pipe materials, social and environmental costs, pipe jacking, pipeline and pipeline renewal with reference to NASSCO and ASTM standards, as well as relevant EPA guidelines Written by nation’s leading experts on the topic □□□□□□□□□□□□□□□□□□□□

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Elsevier
Industrial manufacturers are increasingly using very high pressure water jets for the cleaning and breaking up of materials. Until recently, the demolition of reinforced concrete has been a long and difficult process, but developments in the design and use of high pressure water jets have made this a cleaner and faster process with many other applications in civil, construction and environmental engineering. Andreas Momber, a well known expert in water jet and abrasive water jet cutting technology has produced a unique and comprehensive book dealing with the fundamentals of the hydrodemolition process. Coverage includes equipment, processes, surface quality aspects, demolition with abrasive water jets, pulsed liquid jets, alternative applications and safety aspects. This book will help you to...•Understand the hydrodemolition process and its rewards, enabling you to achieve a cleaner, faster process in the demolition of concrete surfaces and reinforced concrete. •Learn when and where hydrodemolition can be used •Understand the costs, advantages and safety aspects involved•Apply the technique to new applications in your industry such as cleaning and waste management•Purchase the appropriate

equipment, cutting time and maintenance costs* Written by a well known expert in the field of water jet and abrasive water jet cutting technology* First comprehensive book in the growing area of hydrodemolition of concrete surfaces and reinforced concrete * Coverage includes the theory and practice of the hydrodemolition process

Pipeline Infrastructure Renewal and Asset Management CRC Press

Applying any material to an existing concrete surface intrinsically entails the development of a bond. Considering the ever increasing importance of concrete repair and protection, which imply the creation of an interface between two materials, an improved knowledge of concrete surface characteristics is paramount. Surface engineering, which has evolved from the world of metallurgy, addresses all surface-related considerations, notably adhesion. It provides a fundamental understanding of what will make the contact between two materials effective or not, allowing for interactions of variable intensity. It also comes with a variety of scientific tools for characterizing the quality of the substrate, the properties of the new material layer and their interface. In the case of concrete surface treatment, this is especially important for achieving lasting

results. This book addresses the essentials of concrete surface engineering in view of a wide variety of concrete surface treatments, from protective coatings to repairs. It provides a leading-edge source of information for practicing engineers, architects, repair specialists, and researchers on the following topics: Surface engineering principles applied to concrete Methods and techniques for assessing concrete surface characteristics Fundamentals of adhesion between concrete and surface repairs/treatments Compatibility requirements for concrete surface repairs/treatments Review of surface preparation techniques available for concrete Achievement and appraisal of bond between existing concrete and surface repairs/treatments Benoît Bissonnette is professor of civil engineering at Laval University in Quebec City, Canada. Luc Courard is professor of building materials at the University of Liège in Belgium. Andrzej Garbacz is professor of building materials engineering in the Department of Building Materials Engineering at the Warsaw University of Technology in Poland.

Design of FRP Systems for Strengthening Concrete Girders in Shear kassel university press GmbH

The use of fiber-reinforced polymer (FRP) composite materials has had a

dramatic impact on civil engineering techniques over the past three decades. FRPs are an ideal material for structural applications where high strength-to-weight and stiffness-to-weight ratios are required. Developments in fiber-reinforced polymer (FRP) composites for civil engineering outlines the latest developments in fiber-reinforced polymer (FRP) composites and their applications in civil engineering.Part one outlines the general developments of fiber-reinforced polymer (FRP) use, reviewing recent advancements in the design and processing techniques of composite materials. Part two outlines particular types of fiber-reinforced polymers and covers their use in a wide range of civil engineering and structural applications, including their use in disaster-resistant buildings, strengthening steel structures and bridge superstructures.With its distinguished editor and international team of contributors, Developments in fiber-reinforced polymer (FRP) composites for civil engineering is an essential text for researchers and engineers in the field of civil engineering and industries such as bridge and building construction. - Outlines the latest developments in fiber-reinforced polymer composites and their applications in civil engineering - Reviews recent advancements

in the design and processing techniques of composite materials - Covers the use of particular types of fiber-reinforced polymers in a wide range of civil engineering and structural applications
8th PhD Symposium in Copenhagen Denmark
John Wiley & Sons
J. Ross Publishing
Classics are world-renowned texts and monographs written bt preeminent scholars. These books are available to students, researchers, professionals, and libararies.
Failure, Distress and Repair of Concrete Structures McGraw Hill Professional
Understanding and recognising failure mechanisms in concrete is a fundamental pre-requisite to determining the type of repair, or whether a repair is feasible. This title provides a review of concrete deterioration and damage, as well as looking at the problem of defects in concrete. It also discusses condition assessment and repair techniques.Part one discusses failure mechanisms in concrete and covers topics such as causes and mechanisms of deterioration in reinforced concrete, types of damage in concrete structures, types and causes of cracking and condition assessment of concrete structures. Part two reviews the repair of concrete structures with coverage of themes such as standards and

guidelines for repairing concrete structures, methods of crack repair, repair materials, bonded concrete overlays, repairing and retrofitting concrete structures with fiber-reinforced polymers, patching deteriorated concrete structures and durability of repaired concrete.With its distinguished editor and international team of contributors, Failure and repair of concrete structures is a standard reference for civil engineers, architects and anyone working in the construction sector, as well as those concerned with ensuring the safety of concrete structures. - Provides a review of concrete deterioration and damage - Discusses condition assessment and repair techniques, standards and guidelines

Ultra-High Performance Concrete and Nanotechnology in Construction. Proceedings of Hipermat 2012. 3rd International Symposium on UHPC and Nanotechnology for High Performance Construction Materials

Elsevier

Standards for tests and materials - Durability requirements - Concrete quality, mixing, and placing - Formwork, embedded pipes, and construction and movement joints - Details of reinforcement - Analysis and design general considerations - Strength and serviceability requirements - Flexure and axial loads - Shear and torsion -

Development and splices of reinforcement - Two-way slab systems - Walls - Footings - Precast concrete - Composite concrete flexural members - Prestressed concrete - Shells and folded plate members - Strength evaluation of existing structures - Special provisions for seismic design - Structural plain concrete.

ACI Manual of Concrete Practice McGraw Hill Professional

The Concrete Solutions series of International Conferences on Concrete Repair began in 2003 with a conference held in St. Malo, France in association with INSA Rennes. Subsequent conferences have seen us partnering with the University of Padua in 2009 and with TU Dresden in 2011. This conference is being held for the first time in the UK, in association with Queen's University Belfast and brings together delegates from 36 countries to discuss the latest advances and technologies in concrete repair. Earlier conferences were dominated by electrochemical repair, but there has been an interesting shift to more unusual methods, such as bacterial repair of concrete plus an increased focus on service life design aspects and modelling, with debate and discussion on the best techniques and the validity of existing methods. Repair of heritage structures is also growing in

importance and a number of the papers have focused on the importance of getting this right, so that we may preserve our rich cultural heritage of historic structures. This book is an essential reference work for those working in the concrete repair field, from Engineers to Architects and from Students to Clients.

Hydraulic Charts for the Selection of Highway Culverts CRC Press

Entirely devoted to the failure analysis of coatings and paints – an “excellent reference to a select market”. Latest edition contains new material on surface preparation, transfer of salt to steel from contaminated abrasive, effect of peak density on coating performance, on galvanizing, silane-modified coatings, polyurea coatings, polyaspartics, and powder coatings and on dry spray. Balances scientific background and practical advice, giving both the theory and applications in a slim, easily readable form. Includes case studies of laboratory tests. Written by an author with over 25 years of experience in the paint and coatings industry.

Bulletin - Association for Preservation Technology McGraw Hill Professional

Value, Estimate, and Manage Your Pipeline Infrastructure Assets

Implement pipeline infrastructure management policies that are sustainable, cost effective, and environmentally friendly using the

hands-on instruction and best practices contained in this practical guide. Written by an expert pipeline engineer, Pipeline Infrastructure Renewal and Asset Management offers in-depth technical and administrative coverage and provides real-world case studies and illustrations. You will get complete information on pipeline life expectancy, budgeting, renewal, regulations and standards, and inspections. Throughout, details are provided for the full range of pipeline renewal methods for water, sewer, and pressure pipelines. Pipeline Infrastructure Renewal and Asset Management covers: · Pipeline Asset Management · Design Considerations for Trenchless Renewal Methods (TRM) · Condition Assessment · Pipe and Pipe Installation Considerations · Cured-in-Place Pipe (CIPP) · Sliplining (SL) · Modified Sliplining (MSL) · Pipe Bursting (PB) · Spray-in-Place Pipe (SIPP) · Close-fit Pipe (CFP) · Sewer Manhole Renewal (SMR) · Lateral Renewal (LR) · Localized Repairs (LOR)

Bridge and Highway Structure Rehabilitation and Repair American Concrete Institute

The Concrete Construction Engineering Handbook, Second Edition provides in depth coverage of concrete construction engineering and technology. It features

state-of-the-art discussions on what design engineers and constructors need to know about concrete, focusing on - The latest advances in engineered concrete materials Reinforced concrete construction Specialized construction techniques Design recommendations for high performance With the newly revised edition of this essential handbook, designers, constructors, educators, and field personnel will learn how to produce the best and most durably engineered constructed facilities.

10th International Conference on FRP Composites in Civil Engineering John Wiley & Sons

Code Requirements for Environmental Engineering Concrete Structures and Commentary (ACI 350-06) American Concrete Institute

ACI 440. 2R-17 Guide for the Design and Construction of Externally Bonded FRP Systems for Strengthening Concrete Structures Transportation Research Board

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