

# Read Free Dialectics Of The Concrete A Study On Problems Of Man And World Boston Studies In The Philosophy And History Of Science Pdf File Free

**In Concrete Concrete Planet Concrete The Concrete Blonde Transactions and Notes of the Concrete Institute 3D Printing of Concrete Dialectics of the Concrete Durability of Concrete and Cement Composites Thermal Cracking of Massive Concrete Structures Concrete Construction Eco-Efficient Concrete Concrete Sustainability Improvements in the Concrete Industry The Concrete Blonde Lea's Chemistry of Cement and Concrete The Fabric Formwork Book A Treatise on Reinforced Concrete An Epistemology of the Concrete Principles of Cement and Concrete Composites Concrete for the Modern Age Developments in materials and processes Solid States Understanding the Tensile Properties of Concrete The Cement Garden Transactions and Notes of the Concrete Institute Aggregates in Concrete Handbook of advances in Alkali-activated Concrete The Concrete Killing Fields Formwork History Of Concrete: A Very Old And Modern Material Concrete and Sustainability Concrete Construction Engineering Handbook Fiber Concrete Understanding the Rheology of Concrete Damage to Concrete Structures Concrete Structures Handbook of Low Carbon Concrete Concrete Report 38: Durability of Self-Compacting Concrete - State-of-the-Art Report of RILEM Technical Committee 205-DSC Transcendence and the Concrete Concrete Design**

**Principles of Cement and Concrete Composites** Jun 07 2021 This book presents an introduction, a discussion of the concept of the design and the concrete development, and the properties and testing of the concrete in fresh and hardened stages. After an introduction to the principles of cement and concrete composites, the reader will find information on the principles of quantum-scaled cement, low-carbon cement, fiber-reinforced concrete, reactive powder concrete, and tailor-made recycled aggregate concrete.

**Durability of Concrete and Cement Composites** May 18 2022 Whilst most structures made using concrete and cement-based composites have not shown signs of premature degradation, there have been notable exceptions. In addition, there is increasing pressure for new structures to remain in serviceable condition for long periods with only minimal maintenance before being recycled. All these factors have highlighted the issues of what affects the durability of these materials in different circumstances and how material properties can be measured and improved. Durability of concrete and cement composites summarises key research on these important topics. After an introductory chapter, the book reviews the pore structure and chemistry of cement-based materials, providing the foundation for understanding the particular aspects of degradation which are discussed in the following chapters. These include dimensional stability and cracking processes, chemical and microbiological degradation of concrete, corrosion of reinforcing and prestressing steels, deterioration associated with certain aggregates, effects of frost and problems involving fibre-reinforced and polymer-cement composites. With its distinguished international team of contributors, Durability of concrete and cement composites is a standard reference for all those concerned with improving the service life of structures using these materials. Analyses a range of materials such as reinforced steel in concrete, pre-stressed concrete and cement composites Discusses key degradation phenomena such as cracking processes and the impact of cold weather conditions A standard reference for those concerned with improving the service life of structures using concrete and cement based composites

**Concrete Design** Aug 17 2019 Concrete Design covers concrete design fundamentals for architects and engineers, such as tension, flexural, shear, and compression elements, anchorage, lateral design, and footings. As part of the Architect's Guidebooks to Structures Series it provides a comprehensive overview using both imperial and metric units of measurement. Written by experienced professional structural engineers Concrete Design is beautifully illustrated, with more than 170 black and white images, contains clear examples that show all design steps, and provides rules of thumb and simple tables for initial sizing. A refreshing change in textbooks for architectural materials courses, it is an indispensable reference for practicing architects and students alike. As a compact summary of key ideas it is ideal for anyone needing a quick guide to concrete design.

**In Concrete** Dec 25 2022 Garréta's first novel in a decade follows the mania that descends upon a family when the father finds himself in possession of a concrete mixer. As he seeks to modernize every aspect of their lives, disaster strikes when the younger sister is subsumed by concrete. Through puns, wordplay, and dizzying verbal effect, Garréta reinvents the novel form and blurs the line between spoken and written language in an attempt to confront the elasticity of communication.

**Concrete Planet** Nov 24 2022 Concrete: We use it for our buildings, bridges, dams, and roads. We walk on it, drive on it, and many of us live and work within its walls. But very few of us know what it is. We take for granted this ubiquitous substance, which both literally and figuratively comprises much of modern civilization's constructed environment; yet the story of its creation and development features a cast of fascinating characters and remarkable historical episodes. This book delves into this history, opening readers' eyes at every turn. In a lively narrative peppered with intriguing details, author Robert Corland describes how some of the most famous personalities of history became involved in the development and use of concrete—including King Herod the Great of Judea, the Roman emperor Hadrian, Thomas Edison (who once owned the largest concrete cement plant in the world), and architect Frank Lloyd Wright. Courland points to recent archaeological evidence suggesting that the discovery of concrete directly led to the Neolithic Revolution and the rise of the earliest civilizations. Much later, the Romans reached extraordinarily high standards for concrete production, showcasing their achievement in iconic buildings like the Coliseum and the Pantheon. Amazingly, with the fall of the Roman Empire, the secrets of concrete manufacturing were lost for over a millennium. The author explains that when concrete was rediscovered in the late eighteenth century it was initially viewed as an interesting novelty or, at best, a specialized building material suitable only for a narrow range of applications. It was only toward the end of the nineteenth century that the use of concrete exploded. During this rapid expansion, industry lobbyists tried to disguise the fact that modern concrete had certain defects and critical shortcomings. It is now recognized that modern concrete, unlike its Roman predecessor, gradually disintegrates with age. Compounding this problem is another distressing fact: the manufacture of concrete cement is a major contributor to global warming. Concrete Planet is filled with incredible stories, fascinating characters, surprising facts, and an array of intriguing insights into the building material that forms the basis of the infrastructure on which we depend.

**Understanding the Rheology of Concrete** Mar 24 2020 Estimating, modelling, controlling and monitoring the flow of concrete is a vital part of the construction process, as the properties of concrete before it has set can have a significant impact on performance. This book provides a detailed overview of the rheological behaviour of concrete, including measurement techniques, the impact of mix design, and casting. Part one begins with two introductory chapters dealing with the rheology and rheometry of complex fluids, followed by chapters that examine specific measurement and testing techniques for concrete. The focus of part two is the impact of mix design on the rheological behaviour of concrete, looking at additives including superplasticizers and viscosity agents. Finally, chapters in part three cover topics related to casting, such as thixotropy and formwork pressure. With its distinguished editor and expert team of contributors, Understanding the rheology of concrete is an essential reference for researchers, materials specifiers, architects and designers in any section of the construction industry that makes use of concrete, and will also benefit graduate and undergraduate students of civil engineering, materials and construction. Provides a detailed overview of the rheological behaviour of concrete, including measurement techniques, casting and the impact of mix design The estimating, modelling, controlling and monitoring of concrete flow is comprehensively discussed Chapters examine specific measurement and testing techniques for concrete, the impact of mix design on the rheological behaviour of concrete, particle packaging and viscosity-enhancing admixtures

History Of Concrete: A Very Old And Modern Material Jul 28 2020 Post-war Europe and Asia have seen the rapid development of German and Japan from a war torn countries into two of the most powerful nations in the world. Their achievement is nothing short of miraculous. However, as the two most populated countries; China and India, transform themselves into Asia powerhouses, cement and concrete will be their brick and mortar to sustain their double digit growth in economy. This book summarizes the history and development of cement and concrete. From prehistoric period to today, from ancient Egypt and Rome period to China, over tens of thousands of years of human civilization in the form of the gelled material (cement, concrete). The book is divided into seven chapters, including more than 300 references. Chapter 1 introduces the prehistoric gelled material development; Chapter 2 is about the birth of Portland cement and the technological application; Chapter 3 introduces the important role that concrete played in the human society developing process; Chapter 4 subdivides the performance and the wide application of different function of cement and concrete; Chapter 5 focuses on northern Europe, especially the history of Norwegian cement; Chapter 6 elaborates the development of concrete in China and its impact in the world's ancient civilizations history; Chapter 7 describes the development prospect of cement and concrete.

**Concrete** Nov 19 2019 The first title in a new series aimed at sharing best practices in the conservation of modern heritage. This timely volume brings together fourteen case studies that address the challenges of conserving the twentieth century's most ubiquitous building material—concrete. Following a meeting of international heritage conservation professionals in 2013, the need for recent, thorough, and well-vetted case studies on conserving twentieth-century heritage became clear. *Concrete: Case Studies in Conservation Practice* answers that need and kicks off a new series, *Conserving Modern Heritage*, aimed at sharing best practices. The projects selected represent a range of building typologies, building uses, and project sizes, from the high-rise housing blocks of Le Corbusier's Unité d'Habitation and public buildings such as the London's National Theatre to small monuments such as the structures at Dudley Zoological Gardens and a sculpture by Donald Judd. The projects also represent a range of environmental and economic contexts. Some projects benefit from high levels of heritage protection and access to funding, while others have had to negotiate conservation with stringent cost limitations. All follow a rigorous conservation approach, beginning with a process of investigation and diagnosis to identify causes and target repairs and balancing these with conservation requirements to preserve significance. Written by architects, engineers, conservators, scholars, and other professionals in the field, these highly detailed and well-illustrated studies demonstrate sound practice, rigorous methodology, and technological innovation and represent the vibrancy of the field as it stands today. This book has something to offer anyone interested in the conservation of modern heritage.

**Concrete for the Modern Age Developments in materials and processes** May 06 2021 This volume presents a wide-ranging review of the latest developments in concrete technology that have been largely missing from the global conference circuit. It the first major international event under the auspices of the Institute of Concrete Technology (ICT) and is appropriately located in the Middle East at the heart of a construction boom. Themes covered include admixture technology, durability, mix design, special cements and supplementary materials, reinforced concrete and sustainability. The 39 papers provide interesting theory and applicable practice blended with research findings - from the application of 3D printing to performance-based specifications and the role of concrete in the development of Oman - to produce a volume of value to many engineers and technologists. Founded in 1972, The Institute of Concrete Technology (ICT)'s mission is to preserve and promote concrete technology as a recognised engineering discipline and consolidate the professional status of practising concrete technologists worldwide. It is the concrete sector's professional development body, operating internationally, with some 500 members in more than 30 countries. It is an awarding body for qualifications in concrete technology and a facilitator of continuing professional development (CPD) and networking opportunities. Our partner in this conference, The Military Technical College in Muscat, Oman, was established with the intent of becoming a Center of Excellence in engineering education. Located in one purpose-built, state-of-the-art, well-resourced center, the intent is that MTC will be amongst the world's best in the field of military and applied non-military technological education and training providers in the world.

**Report 38: Durability of Self-Compacting Concrete - State-of-the-Art Report of RILEM Technical Committee 205-DSC** Oct 19 2019

Concrete Oct 23 2022 *Concrete: Properties and Manufacture* describes the properties of concrete, including its manufacture and use in civil engineering construction. The book first discusses the properties of plastic or wet and hardened concrete. The text also describes different concrete materials, including cement, Portland cement, slag and high alumina cements, and aggregates. The selection also looks at the mix design of concrete. Mix proportioning based on strength and workability; mix design for high alumina cement; combination of single-sized aggregates; and nominal mixes are discussed. The text also examines the manufacture of concrete. Handling and batching of materials, mixing and placing, compaction of concrete, and winter concreting are underscored. The book also focuses on the resistance of concrete to deterioration. Resistance of concrete to freezing, sewage, sulfate attack, chemicals, fire, erosion, and abrasion are discussed. The text also offers information on surface treatment of concrete and special concrete. The selection is a valuable source of information for readers, students, and graduate and site engineers.

Eco-Efficient Concrete Feb 15 2022 *Eco-efficient concrete* is a comprehensive guide to the characteristics and environmental performance of key concrete types. Part one discusses the eco-efficiency and life cycle assessment of Portland cement concrete, before part two goes on to consider concrete with supplementary cementitious materials (SCMs). Concrete with non-reactive wastes is the focus of part three, including municipal solid waste incinerator (MSWI) concrete, and concrete with polymeric, construction and demolition wastes (CDW). An eco-efficient approach to concrete carbonation is also reviewed, followed by an investigation in part four of future alternative binders and the use of nano and biotech in concrete production. With its distinguished editors and international team of expert contributors, *Eco-efficient concrete* is a technical guide for all professionals, researchers and academics currently or potentially involved in the design, manufacture and use of eco-efficient concrete. The first part of the book examines the eco-efficiency and life cycle assessment of Portland cement concrete Chapters in the second part of the book consider concrete with supplementary cementitious materials, including properties and performance Reviews the eco-efficient approach to concrete carbonation

*Handbook of Low Carbon Concrete* Dec 21 2019 *Handbook of Low Carbon Concrete* brings together the latest breakthroughs in the design, production, and application of low carbon concrete. In this handbook, the editors and contributors have paid extra attention to the emissions generated by coarse aggregates, emissions due to fine aggregates, and emissions due to cement, fly ash, GGBFS, and admixtures. In addition, the book provides expert coverage on emissions due to concrete batching, transport and placement, and emissions generated by typical commercially produced concretes. Includes the tools and methods for reducing the emissions of greenhouse gases Explores technologies, such as carbon capture, storage, and substitute cements Provides essential data that helps determine the unique factors involved in designing large, new green cement plants

Handbook of advances in Alkali-activated Concrete Oct 31 2020 *Advances on Alkali-activated Concrete*, provides comprehensive information on materials, structural properties and realistic potential for the application of alkali-activated concretes and cements. Divided over seven key parts, including the design of alkali-activated concrete, their fabrication and curing, rheology, properties of alkali-activated concrete, durability, dynamic performance and LCA, the book will be an essential reference resource for academic and industrial researchers, materials scientists, chemists, manufacturers and civil engineers working with alkali-activated materials and concrete structures. Provides an essential guide on the latest developments in alkali-activated concrete Comprehensively examines alkali-activated concrete performance under cyclic loading Includes concrete systems containing coarser aggregates Presents several important cases studies of application

**The Fabric Formwork Book** Sep 10 2021 Concrete is the most used man-made material in the world and is the fundamental physical medium for most of the world's architecture and construction. The character of concrete is largely the product of the rigid moulds that have shaped it since its invention in antiquity. The advent of flexible moulds, however, marks a radical break from conventional practice - and conventional concrete architecture. The *Fabric Formwork Book* provides the first comprehensive handbook on the emerging technology of flexible moulds for reinforced concrete architecture. Written by the foremost expert in the field, this book takes a comprehensive and generous approach that includes technical, historical and theoretical aspects of the subject. The book: concentrates on simple flat-sheet formworks contains detailed technical descriptions of how to construct a wide range of formworks for various applications features case studies from around the world critiques the difficulties and

advantages in each case it covers provides instruction and guidance on how to model and design fabric-formed structures includes the most comprehensive history of fabric formwork yet published features essays from guest expert authors, which explore the theoretical, historical, and poetic significance of flexibly formed architecture and structures discusses fabric formwork as an exemplary approach to sustainable construction through its simplicity and efficiency. Beautifully designed and illustrated with a superb range of images, diagrams and technical drawings, the book both informs and inspires. Speaking directly and plainly to professionals, students and academics, the language used is both clear and precise, and care is taken to avoid opaque technical or academic jargon. Technical terms, when used, are clearly described and a special glossary is included to make the book as widely accessible as possible.

**Aggregates in Concrete** Dec 01 2020 Bringing together in one volume the latest research and information, this book provides a detailed guide to the selection and use of aggregates in concrete. After an introduction defining the purpose and role of aggregates in concrete, the authors present an overview of aggregate sources and production techniques, followed by a detailed study of their physical, mechanical and chemical properties. This knowledge is then applied to the use of aggregates in both plastic and hardened concretes, and in the overall mix design. Special aggregates and their applications are discussed in detail, as are the current main specifications, standards and tests.

**Concrete Construction** Mar 16 2022 This comprehensive concrete manual has the information you need, both the tried-and-tested methods and materials, and recent innovations. It covers styrofoam forming systems, fiber reinforcing adjuncts, and architectural innovations. Forming, one of the most important elements of concrete work, gets special attention. Every chapter provides detailed, step-by-step instructions for each task, with hundreds of photographs and drawings that show exactly how the work is done.

**Concrete Construction Engineering Handbook** May 26 2020 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

**Damage to Concrete Structures** Feb 21 2020 Serious degradation mechanisms can severely reduce the service life of concrete structures: steel reinforcement can corrode, cement matrix can be attacked, and even aggregates can show detrimental processes. Therefore, it is important to understand how damage can occur to concrete structures and to appreciate the timing of the actions leading to damage. *Damage to Concrete Structures* summarizes the state-of-the-art information on the degradation of concrete structures, and gives a clear and comprehensive overview of what can go wrong. Offering a logical flow, the chapters are ordered according to the chronological timing of the actions leading to concrete damage. The author explains the different actions or mechanisms in a fundamental manner, without too many physical or chemical details, to provide greater clarity and readability. The book describes the different causes of damage to concrete, including inappropriate design, errors during execution, mechanisms occurring during hardening of concrete, and actions or degradation mechanisms during service life (hardened concrete). The degradation mechanisms are illustrated with numerous real-world examples and many drawings and photographs taken of actual structures. Written as a textbook for students as well as a reference for professionals, this easy-to-comprehend book gives readers a deeper understanding of the damage that can occur to concrete during the construction process and service.

*Transactions and Notes of the Concrete Institute* Aug 21 2022

**Concrete and Sustainability** Jun 26 2020 Concrete is by far the most common building material— accounting for twice the volume of all other such materials combined. With such a huge global economic impact, the industry has a correspondingly considerable responsibility to use it sustainably. Written by experts who pioneered research into environmental issues and concrete, *Concrete and Sustainability* examines the sustainability issues of the world's main construction material and proposes attainable solutions. It provides a complete overview of the topic and tackles the complexity of the challenges from different angles. This book offers new data regarding the social and economic importance of concrete and proposes a discussion centered on a holistic approach in terms of resource availability, technical viability, economic feasibility, and environmental compatibility. The authors attribute a growing worldwide concern and understanding of sustainability issues, and an increased focus on climate change as the catalyst in this process. Instead of offering detailed technical advice or recommendations on sustainable issues, they provide examples showcasing sustainability efforts taking place in the concrete environment worldwide. The book includes examples and ideas for solutions from a large number of countries from across the globe. It presents a holistic and more complete overview of the emission and absorption topic, takes a look at the challenges from a combined old and new world viewing platform and offers an exploration of issues from a social and economic perspective. *Concrete and Sustainability* details the various rules and regulations that the industry is facing, discusses the various environmental challenges, and explores its impact. As emission, absorptions, and recycling have been the most central elements of discussion in the cement and concrete environment so far, these topics each receive their own chapters. This book also discusses other issues of concern within the various platforms in the industry, as well as future developments, and provides a comprehensive reference list.

**Understanding the Tensile Properties of Concrete** Mar 04 2021 The response of concrete under tensile loading is crucial for most applications because concrete is much weaker in tension than in compression. Understanding the response mechanisms of concrete under tensile conditions is therefore key to understanding and using concrete in structural applications. *Understanding the tensile properties of concrete* summarises key recent research in this important subject. After an introduction to concrete, the book is divided into two parts: part one on static response and part two on dynamic response. Part one starts with a summary chapter on the most important parameters that affect the tensile response of concrete. Chapters show how multi scale modelling is used to relate concrete composition to tensile properties. Part two focuses on dynamic response and starts with an introduction to the different regimes of dynamic loading, ranging from the low frequency loading by wind or earthquakes up to the extreme dynamic conditions due to explosions and ballistic impacts. Following chapters review dynamic testing techniques and devices that deal with the various regimes of dynamic loading. Later chapters highlight the dynamic behaviour of concrete from different viewpoints, and the book ends with a chapter on practical examples of how detailed knowledge on tensile properties is used by engineers in structural applications. Drawing on the work of some of the leading experts in the field, *Understanding the tensile properties of concrete* is a valuable reference for civil and structural engineers as well as those researching this important material. Summarises key recent research in the areas of understanding the response mechanisms of concrete under tensile conditions Provides a summary of the most important parameters that affect the tensile response of concrete and shows how multi scale modeling is used to relate concrete composition to tensile properties Highlights the dynamic behaviour of concrete from different viewpoints and provides practical examples of how detailed knowledge on tensile properties is used by engineers in structural applications

**Transcendence and the Concrete** Sep 17 2019 Jean Wahl (1888-1974), once considered by the likes of Georges Bataille, Gilles Deleuze, Emmanuel Levinas, and Gabriel Marcel to be among the greatest French philosophers, has today nearly been forgotten outside France. Yet his influence on French philosophical thought can hardly be overestimated. Levinas wrote that “during over a half century of teaching and research, [Wahl] was the life force of the academic, extra-academic, and even, to a degree anti-academic philosophy necessary to a great culture.” And Deleuze, for his part, commented that “Apart from Sartre, who remained caught none the less in the trap of the verb to be, the most important philosopher in France was Jean Wahl.” Besides engaging with the likes of Bataille, Bergson, Deleuze, Derrida, Levinas, Maritain, and Sartre, Wahl also played a significant role, in some cases almost singlehandedly, in introducing French philosophy to movements like existentialism, and American pragmatism and literature, and thinkers like Hegel, Kierkegaard, Nietzsche, Jaspers, and Heidegger. Yet Wahl was also an original philosopher and poet in his own right. This volume of selections from Wahl's philosophical writings makes a selection of his most important work available to the English-speaking philosophical community for the first time. Jean Wahl was Professor of Philosophy at the Sorbonne from 1936 to 1967, save during World War II, which he spent in the United States, having escaped from the Drancy internment camp. His books to appear in English include *The Pluralist Philosophies of England and America* (Open Court, 1925), *The Philosopher's Way* (Oxford UP, 1948), *A Short History of Existentialism* (Philosophical Library, 1949), and *Philosophies of Existence* (Schocken, 1969).

**The Concrete Blonde** Nov 12 2021 From the bestselling author of *The Lincoln Lawyer* and *The Gods of Guilt*. When LAPD detective Harry Bosch shot

and killed Norman Church - the 'Dollmaker' - the police were convinced it marked the end of the search for one of the city's most bizarre serial killers. But four years later, Norman Church's widow is taking Bosch to court, accusing him of killing the wrong man. To make matters worse, Bosch has just received a note, eerily reminiscent of the ones the Dollmaker used to taunt him with, giving him a location where a body can be found. Is the Dollmaker still alive? Or is this the work of a vicious copycat killer, determined to repeat the Dollmaker's grisly feats and destroy Bosch's career in the process?

**Concrete** Jan 14 2022 A historical account of our most versatile building material, beginning in ancient Egypt and ending on the moon.

**Lea's Chemistry of Cement and Concrete** Oct 11 2021 Lea's Chemistry of Cement and Concrete deals with the chemical and physical properties of cements and concretes and their relation to the practical problems that arise in manufacture and use. As such it is addressed not only to the chemist and those concerned with the science and technology of silicate materials, but also to those interested in the use of concrete in building and civil engineering construction. Much attention is given to the suitability of materials, to the conditions under which concrete can excel and those where it may deteriorate and to the precautionary or remedial measures that can be adopted. First published in 1935, this is the fourth edition and the first to appear since the death of Sir Frederick Lea, the original author. Over the life of the first three editions, this book has become the authority on its subject. The fourth edition is edited by Professor Peter C. Hewlett, Director of the British Board of Agreement and visiting Industrial Professor in the Department of Civil Engineering at the University of Dundee. Professor Hewlett has brought together a distinguished body of international contributors to produce an edition which is a worthy successor to the previous editions.

**An Epistemology of the Concrete** Jul 08 2021 An Epistemology of the Concrete brings together case studies and theoretical reflections on the history and epistemology of the life sciences by Hans-Jörg Rheinberger, one of the world's foremost philosophers of science. In these essays, he examines the history of experiments, concepts, model organisms, instruments, and the gamut of epistemological, institutional, political, and social factors that determine the actual course of the development of knowledge. Building on ideas from his influential book *Toward a History of Epistemic Things*, Rheinberger first considers ways of historicizing scientific knowledge, and then explores different configurations of genetic experimentation in the first half of the twentieth century and the interaction between apparatuses, experiments, and concept formation in molecular biology in the second half of the twentieth century. He delves into fundamental epistemological issues bearing on the relationship between instruments and objects of knowledge, laboratory preparations as a special class of epistemic objects, and the note-taking and write-up techniques used in research labs. He takes up topics ranging from the French "historical epistemologists" Gaston Bachelard and Georges Canguilhem to the liquid scintillation counter, a radioactivity measuring device that became a crucial tool for molecular biology and biomedicine in the 1960s and 1970s. Throughout *An Epistemology of the Concrete*, Rheinberger shows how assemblages—historical conjunctures—set the conditions for the emergence of epistemic novelty, and he conveys the fascination of scientific things: those organisms, spaces, apparatuses, and techniques that are transformed by research and that transform research in turn.

**Thermal Cracking of Massive Concrete Structures** Apr 17 2022 This book provides a State of the Art Report (STAR) produced by RILEM Technical Committee 254-CMS 'Thermal Cracking of Massive Concrete Structures'. Several recent developments related to the old problem of understanding/predicting stresses originated from the evolution of the hydration of concrete are at the origin of the creation this technical committee. Having identified a lack in the organization of up-to-date scientific and technological knowledge about cracking induced by hydration heat effects, this STAR aims to provide both practitioners and scientists with a deep integrated overview of consolidated knowledge, together with recent developments on this subject.

**A Treatise on Reinforced Concrete** Aug 09 2021

**Transactions and Notes of the Concrete Institute** Jan 02 2021

**Sustainability Improvements in the Concrete Industry** Dec 13 2021 This book examines state-of-the-art techniques for using recycled materials for structural concrete production, and explores the use of concrete with metallurgical slag, rheology of fresh recycled concrete, and life-cycle analysis of building materials. It reviews recent codes, guidelines and practices for using recycled materials in structural concrete application, and presents research recently carried out by the authors. Focusing on techniques that limit the environmental impacts of the concrete industry, the text explores the use of recycled components in the place of virgin aggregates and ordinary binders. Chapters focus on topics including processing procedures, mixture proportioning, mechanical properties, durability and structural applications. Providing a valuable resource to engineering postgraduates and researchers, this book is also intended for civil engineers, geologists, and concrete engineers.

**Fiber Concrete** Apr 24 2020 This new edition of the book helps the user to correctly use fiber-reinforced concrete as a building material in accordance with its properties in order to create a long-lasting building for the client at low cost. The chapters on the properties, design and processing of fiber-reinforced concrete. Fiber-reinforced concrete as an extension of concrete offers considerable advantages for building practice, which, based on the material properties, allow a very long service life. Fiber-reinforced concrete is particularly suitable for an aggressive environment such as salt exposure, since corrosion can be completely avoided. Particular attention is also paid to the shrinkage cracks that occur in the concrete and how they can be and how these can be avoided when using fibers. Fiber-reinforced concrete, with its material properties, acts over the entire cross section cross-section in the non-cracked state and thus also offers protection against internal protection against internal destruction. It is a building material that achieves its full static effect in the non-cracked state similar to most other building materials such as wood, steel, glass, etc. This book is a translation of the original German 3rd edition *Faserbeton* by Bernhard Wietek, published by Springer Fachmedien Wiesbaden GmbH, part of Springer Nature in 2020. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation. Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors.

**The Concrete Blonde** Sep 22 2022 Detective Harry Bosch had thought that he had eliminated the "Dollmaker," a vicious serial killer, until he discovers that he had killed the wrong man, and now Harry must find the "Dollmaker" before he strikes again. Reissue.

**Solid States** Apr 05 2021 DVD features highlights from the conference held at Columbia University.

**Formwork** Aug 29 2020

**Concrete Structures** Jan 22 2020 This revised, fully updated second edition covers the analysis, design, and construction of reinforced concrete structures from a real-world perspective. It examines different reinforced concrete elements such as slabs, beams, columns, foundations, basement and retaining walls and pre-stressed concrete incorporating the most up-to-date edition of the American Concrete Institute Code (ACI 318-14) requirements for the design of concrete structures. It includes a chapter on metric system in reinforced concrete design and construction. A new chapter on the design of formworks has been added which is of great value to students in the construction engineering programs along with practicing engineers and architects. This second edition also includes a new appendix with color images illustrating various concrete construction practices, and well-designed buildings. The ACI 318-14 constitutes the most extensive reorganization of the code in the past 40 years. References to the various sections of the ACI 318-14 are provided throughout the book to facilitate its use by students and professionals. Aimed at architecture, building construction, and undergraduate engineering students, the scope of concepts in this volume emphasize simplified and practical methods in the analysis and design of reinforced concrete. This is distinct from advanced, graduate engineering texts, where treatment of the subject centers around the theoretical and mathematical aspects of design. As in the first edition, this book adopts a step-by-step approach to solving analysis and design problems in reinforced concrete. Using a highly graphical and interactive approach in its use of detailed images and self-experimentation exercises, "Concrete Structures, Second Edition," is tailored to the most practical questions and fundamental concepts of design of structures in reinforced concrete. The text stands as an ideal learning resource for civil engineering, building construction, and architecture students as well as a valuable reference for concrete structural design professionals in practice.

*The Concrete Killing Fields* Sep 29 2020

**The Cement Garden** Feb 03 2021 Orphaned siblings create a macabre secret world for themselves in this “irresistibly readable” novel by the New York Times-bestselling author (The New York Review of Books). This “powerful and disconcerting” novel by the Booker Prize-winning author of *The Children Act* and *Atonement* (The Daily Telegraph) tells the story of a dying family who live in a dying part of the city. A father of four children decides, in an effort to make his garden easier to control, to pave it over. In the process, he has a heart attack and dies, leaving the cement garden unfinished and the children to the care of their mother. Soon after, the mother too dies and the children, fearful of being separated by social services, decide to cover up their parents’ deaths: they bury their mother in the cement garden. The story is told from the point of view of Jack, one of the sons, who is entering adolescence with all of its attendant curiosity and appetites. Julie, the eldest, is almost a grown woman. Sue is rather bookish and observes all that goes on around her. And Tom is the youngest and the baby of the lot. The children seem to manage in this perverse setting rather well—until Julie brings home a boyfriend who threatens their secret by asking too many questions. “[A] beautiful but disturbing novel.”—The AV Club “McEwan’s evocative detail and perfect British prose lend a genteel decorum to the death and decay that surround the family.”—The New Yorker

**3D Printing of Concrete** Jul 20 2022 The introduction of digital manufacturing techniques, such as 3D printing applied to concrete material, opens up new perspectives on the way in which buildings are designed. Research on this theme is thriving and there is a high rate of innovation related to concrete. At the same time, the first life-size constructions made from printed concrete are emerging from the ground. This book presents state-of-the-art knowledge on the different printing processes as well as on the concrete material that must adapt to these new manufacturing techniques, such as new hardware and new printers for concrete. The possibilities in terms of architectural design are discussed as well as the pathways that remain to be uncovered. The book also explores the challenges that researchers and companies expect to overcome as they get closer to democratizing this potential revolution that is the digital manufacturing of concrete.

**Dialectics of the Concrete** Jun 19 2022 Kosik writes that the history of a text is in a certain sense the history of its interpretations. In the fifteen years that have passed since the first (Czech) edition of his *Dialectics of the Concrete*, this book has been widely read and interpreted throughout Europe, in diverse centers of scholarship as well as in private studies. A faithful English language edition is long overdue. This publication of Kosik's work will surely provoke a range of new interpretations. For its theme is the characterization of science and of rationality in the context of the social roots of science and the social critique which an appropriately rational science should afford. Kosik's question is: How shall Karl Marx's understanding of science itself be understood? And how can it be further developed? In his treatment of the question of scientific rationality, KOSIK drives bluntly into the issues of gravest human concern, not the least of which is how to avoid the pseudo-concrete, the pseudo-scientific, the pseudo-rational, the pseudo historical. Starting with Marx's methodological approach, of "ascending from the abstract to the concrete", KOSIK develops a critique of positivism, of phenomenalist empiricism, and of "metaphysical" rationalism, counter posing them to "dialectical rationalism". He takes the category of the concrete in the dialectical sense of that which comes to be known by the active transformation of nature and society by human purposive activity.

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