

Guide to Mass Concrete

Reported by ACI Committee 207

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Mass concrete is any volume of concrete with dimensions large enough to require that measures be taken to cope with the generation of heat from hydration of the cement and attendant volume change to minimize cracking. The design of mass concrete structures is generally based on durability, economy, and thermal action, with strength often being a secondary concern. This document contains a history of the development of mass concrete practice and discussion of materials and concrete mixture proportioning, properties, construction methods, and equipment. It covers traditionally placed and consolidated mass concrete and does not cover roller-compacted concrete.

Keywords: admixture; aggregate; air entrainment; batch; cement; compressive strength; cracking; creep; curing; durability; fly ash; formwork; grading; heat of hydration; mass concrete; mixing; mixture proportion; modulus of elasticity; placing; Poisson's ratio; pozzolan; shrinkage; strain; stress; temperature rise; thermal expansion; vibration; volume change.

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ACI PRC-207.1-21 Mass Concrete-Guide ACI Committee 207,2022-02 *ACI Manual of Concrete Practice* American Concrete Institute,2002 **Handbook for Concrete and Cement** United States. Army. Corps of Engineers,1949

Workability of Mass Concrete Billy D. Neeley,Michael K. Lloyd,1996 **ACI Manual of Concrete Inspection** B. E. Weinberg,1981 Handbook on Nondestructive Testing of Concrete V. M. Malhotra,Nicholas J. Carino,2004 Civil engineers will value this resource that examines the tools and techniques used to estimate the in place strength on concrete permeation properties that relate to potential durability and the methods used to assess the internal condition of concrete and the corrosion activity of steel reinforcement *Handbook of Elastic Properties of Solids, Liquids, and Gases, Four-Volume Set* Moises Levy, Henry Bass, Richard Stern,2000-10-23 Sound waves propagate through galactic space through two dimensional solids through biological systems through normal and dense stars and through everything that surrounds us the earth the sea and the air We use sound to locate objects to identify objects to understand processes going on in nature to communicate and to entertain The elastic properties of materials determine the velocity of sound in them and tell us about their response to stresses something which is very important when we are trying to construct manufacture or create something with any material The Handbook of Elastic Properties of Materials will provide these characteristics for almost everything whose elastic properties has ever been measured or deduced in a concise and approachable manner Leading experts will explain the significance of the elastic properties as they relate to intrinsic microscopic behavior to manufacturing to construction or to diagnosis They will discuss the propagation of sound in newly discovered or created materials and in common materials which are being investigated with a fresh outlook The Handbook will provide the reader with the elastic properties of the common and mundane the novel and unique the immense and the microscopic and the exorbitantly dense and the ephemeral You will also find the measurement And theoretical techniques that have been developed and invented in order to extract these properties from a reluctant nature and recalcitrant systems Key Features Solids liquids and gases covered in one handbook Articles by experts describing insights developed over long and illustrious careers Properties of esoteric substances such as normal and dense stars superfluid helium three fullness two dimensional solids extraterrestrial substances gems and planetary atmospheres Properties of common materials such as food wood used for musical instruments paper cement and cork Modern dynamic elastic properties measurement techniques FLAC and Numerical Modeling in Geomechanics - 2001 D. Billaux,C. Detournay,R. Hart,X. Rachez,2020-12-17 A collection of 54 papers selected for presentation at the 2nd FLAC Symposium The contributions cover a wide range of topics from engineering applications to theoretical developments in the areas of embankment and slope stability mining tunnelling and soil and structure interaction *Modern Mechanics and Applications* Nguyen Tien Khiem,Tran Van Lien,Nguyen Xuan Hung,2021-09-06 This proceedings book includes a selection of refereed papers presented at the International Conference on Modern Mechanics and

Applications ICOMMA 2020 which took place in Ho Chi Minh City Vietnam on December 2 4 2020 The contributions highlight recent trends and applications in modern mechanics Subjects covered include biological systems damage fracture and failure flow problems multiscale multi physics problems composites and hybrid structures optimization and inverse problems lightweight structures mechatronics dynamics numerical methods and intelligent computing additive manufacturing natural hazards modeling The book is intended for academics including graduate students and experienced researchers interested in recent trends in modern mechanics and application

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Significance of Tests and Properties of Concrete and Concrete-making Materials Joseph F. Lamond, J. H. Pielert, 2006

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RCC Dams - Roller Compacted Concrete Dams Luis Berga, J. M. Buil, C. Jofré, S. Chonggang, 2018-04-27 A book of broad interest to professionals dam engineers and managers and to organizations responsible for dam development and management RCC Dams offers a topical account of the design and operation of roller compacted concrete dams describing the latest developments and innovative technologies in the field The book considers planning and design materials and construction as well as the operation and performance of RCC dams

Roller-compacted Concrete, 2005

Concrete in Coastal Structures Richard Thomas Lingen Allen, 1998 Describing the nature of the marine environment and the effects of man made structures on the behaviour of the sea this books deals with hydraulic design the material properties of concrete and the design and specification of structures for coastal environments

Protection of Concrete Ravindra Dhir, Jeffrey Green, 2003-09-02 Concrete is arguably the major construction material used worldwide It has generally served well yet too often it has failed to achieve the required performance Although developments in materials and practice have widened the scope for the use of concrete they have also had effects on its performance This book presents current thinking and future developments on means of protecting concrete and ensuring its adequate performance in the required application

The National Union Catalogs, 1963-, 1964

TEKNOLOGI BETON Fauzan Hamdi, Franky Edwin Paskalis Lopian, Miswar Tumpu, Mansyur, Irianto, Didik Suryamiharja S. Mabui, Adri Raidyarto, Ardi Azis Sila, Masdiana, Parea Rusan Rangan, Hamkah, 2022-03-23 Beton adalah bahan komposit yang terbuat dari beberapa material yang menggunakan bahan utama yaitu semen agregat halus agregat kasar air dan material tambahan jika dibutuhkan dengan komposisi tertentu Beton adalah material komposit oleh karena itu kualitas beton sangat tergantung dari kualitas masing masing material pembentuknya Beton merupakan bahan konstruksi yang banyak digunakan pada bangunan struktur Bisa dikatakan semua bangunan struktur dibangun menggunakan beton sebagai bahan konstruksi utama contohnya yaitu struktur gedung struktur bangunan air struktur bangunan transportasi dan banyak lagi bangunan

struktur lainnya Salah satu kelebihan beton yaitu mampu menahan beban tekan perubahan cuaca suhu yang tinggi dapat dibentuk dan mudah dirawat Berkembangnya ilmu pengetahuan khususnya di bidang konstruksi maka material penyusun beton juga mengalami perkembangan Sebagian produsen semen di Indonesia sudah mengadopsi semen kombinasi blended cement yang sudah dibesarkan terlebih dulu di sebagian negeri di Eropa Amerika Jepang serta lain lain salah satunya adalah abu terbang sebagai salah satu material pozzolan yang bisa dicampur bersama klinker semen buat memproduksi semen kombinasi Dalam dekade terakhir di Indonesia bersumber pada pertimbangan konservasi alam pengurangan limbah semacam abu terbang penyusutan emisi CO₂ serta faktor faktor lain yang terpaut dengan pembangunan infrastruktur berkepanjangan sudah terdapat kecenderungan yang kokoh ke arah pengembangan akumulasi alternatif buat pembuatan semen kombinasi ramah lingkungan semacam semen portland komposit Portland Composite Cement Banyak upaya sudah dicoba untuk mengurangi jejak karbon industri semen misalnya i tingkatkan efisiensi tenaga ii mengubah bahan bakar fosil dengan sumber tenaga alternatif semacam residu hewan lumpur limbah serta minyak limbah iii substitusi semen Portland tradisional dengan bahan semen alternatif semacam slag furnace serta abu pembakaran batubara serta masih banyak lagi teknologi lain yang diterapkan

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