



Concrete Structures

By Mehdi Setareh, Robert M. Darvas

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Based on the latest ACI Code, *Concrete Structures* takes a step-by-step approach to exploring the design and analysis of reinforced concrete structures and elements. Ideal for engineering, architectural engineering, building construction, and architecture students, it covers concrete technology, analysis and design of reinforced concrete beams, slabs, columns, footings, and walls. It also introduces the different types of reinforced concrete floor systems and the fundamentals of pre-stressed concrete structures. Unique self-experiments and realistic problems help readers further understand concrete's structural significance and potential as a building material. Includes the most recent methods of design and analysis of reinforced concrete structures and is based on the American Concrete Institute Code (ACI 318-05). Easy to follow using a step-by-step, non-calculus approach. Includes a series of experiments readers can conduct on their own to comprehend concrete's structural significance and understand more about concrete as a building material. Practicing architects and engineers, in particular individuals preparing for the licensing exams. People interested in the building design and construction can also benefit from the book as it follows a step by step approach in the design and analysis of concrete structures.

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Editorial Review

About the Author

Dr. Mehdi Setareh is a Professor and member of the faculty of the College of Architecture and Urban Studies at the Virginia Polytechnic Institute and State University (Virginia Tech). He received his B.Sc. in Structural Engineering from the Technical University of Tehran, Iran in 1980, M.Sc. in Structural Engineering from the University of Surrey, Guildford, U.K. in 1985, and Ph.D. in Structural Engineering from the University of Michigan, Ann Arbor in 1990. Dr. Setareh has taught undergraduate and graduate level structures and building systems courses to architecture and engineering students since 1990. His *Structural Technology* seminars have provided continuing education to hundreds of practicing architects throughout the U.S., in addition to helping them prepare for the Architecture Registration Examination.

Dr. Setareh is a licensed professional engineer in states of Virginia and Michigan, and a member of the American Society of Civil Engineers, and the American Concrete Institute. He has over twenty years of experience in the analysis and design of various structures using computer technology. His research on different aspects of building structures have been sponsored by the various federal and state agencies in addition to professional organizations and private industries. He has received awards for his scholarly contribution to the field of structural engineering and has numerous publications in technical journals and conference proceedings.

Robert M. Darvas, is Professor Emeritus of Architecture (Structures), The University of Michigan, Ann Arbor. Professor Darvas served from 1983 to 1986 as Chairman of the Architecture Program. He is a Registered Structural and Professional Engineer in 11 States. He is a member of the American Society of Civil Engineers Committee on Special Structures; also serves on the Task Committee on Tensioned Fabric Structures. Professor Darvas is well recognized for his innovative and outstanding structural designs, in many different structural media; he has received numerous honor and merit awards for designs executed in reinforced concrete, prestressed concrete, steel and timber. College buildings, libraries, churches, museums, public buildings, hotels, and convention centers are among his notable accomplishments. He also received two awards for his outstanding teaching. He has lectured widely in the US and overseas. His work has been widely published in journals and cited in books. He is a member of the American Concrete Institute.

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