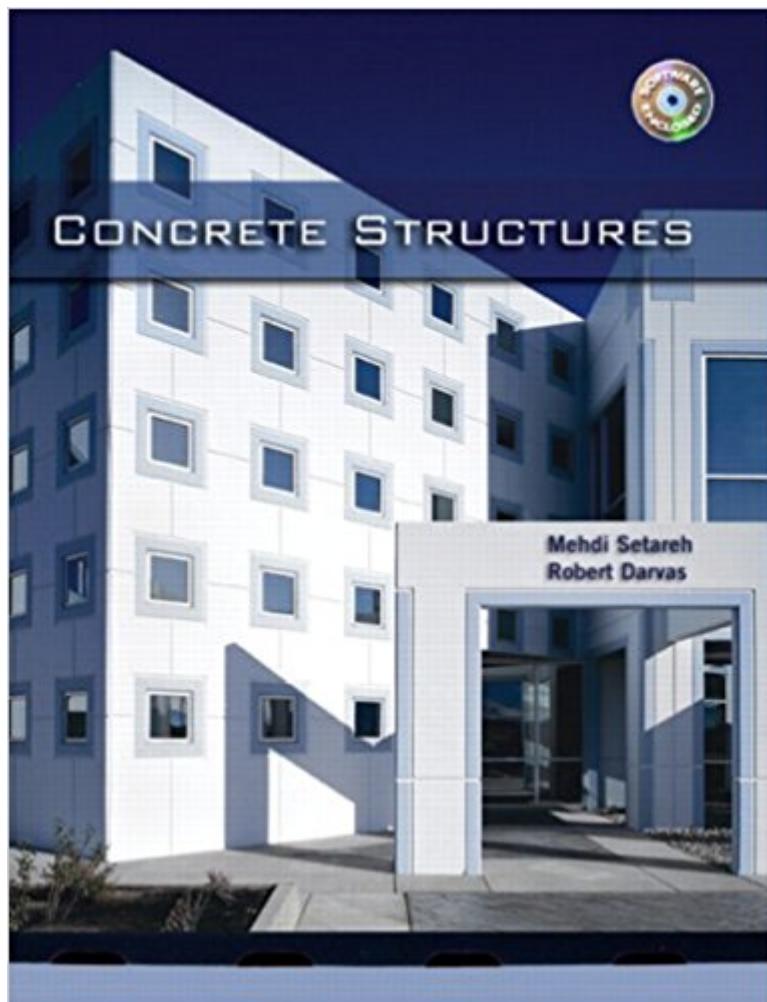


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# Concrete Structures



## Synopsis

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.

## Book Information

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## Customer Reviews

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.

This is one of the best textbooks i have opened. The material covered throughout the course is clearly described and explained step by step. The flow charts on each problem type walk you through how to solve problems exactly. The flow charts are easy to follow, with example problems numbered step by step so you know exactly what is going on and how to do it.Certainly one of the better textbooks you will purchase throughout your collegiate career.

This book is extremely helpful and very easy to understand. The structure class I took was

challenging but the book gave me an understanding of the principles through in depth description, images and flow charts. I recommend it to anyone taking a concrete structures class!!

The book was in good shape and was shipped very quickly. Overall I decided to keep the book because of how helpful it is.

Concrete structures have been built since the days of the Romans, the Pantheon being the most notable example of their technical ability with the material. It's not clear how the Romans managed to work out the problems associated with building large scale structures in concrete, but it undoubtedly involved a combination of intuition, trial, and at least a few dramatic failures. Things have changed considerable for designers since that era. Fortunately, contemporary architects and engineers don't need to use the cumbersome Roman numeral system to make structural calculations. On the other hand, trial and error is no longer a valid way of learning to design structures. Today's designer is required to demonstrate before building that a design is safe to carry not only its own weight, but also the loads it will be subjected to in use. To the uninitiated, and probably even to quite a number of practicing designers, the array of formulas, charts, and diagrams employed in designing and proving efficient concrete structures can seem bewildering, and perhaps Byzantine in their complexity. Dr. Setareh and Robert Darvas have done a great job of simplifying the problem of understanding how to comply with the requirements of the ACI code. The book begins with a concise and clear explanation of some of the basics of concrete types and uses. Practical experiments with beam models and simple experiments in casting and testing actual concrete samples develop the intuitive sense that is still important in the initial stages of the design process. There's no shortage of rigor, but it's in the presentation of the more difficult subject matter that the authors' years of teaching experience are most obvious. Step by step flow charts and accompanying example problems are simple to follow and help insure that no part of the calculation process is overlooked. An experienced designer can go right to a flow chart to solve a problem, but for the student, every detail is thoroughly, clearly, and logically explained so that the importance of each step can be fully understood. If I were to find fault with the book, it would be in the accompanying CR-ROM, and it's a small complaint. There are lots of pretty pictures there of a wide range of concrete structures. Those are followed by images showing examples of minor problems like rust stains and spalling from weathering, but not one of a complete structural failure. I'd kind of like to see what it looks like when things go really wrong. That might make students realize that dramatic failure is still possible and that mastering the subject of structural design is a vital part of

their education. That aside, it's a very good book and highly recommended.

Solving structural problems and designing structural members, is a linear and logical process. It makes sense that the text teaching the method is also extremely logical and clear, which this book is. The exams in the structures course I took allowed for open notes and open book, this book was the ultimate reference and not having it would have made every exam much more difficult. It is full of flow charts that show the procedural order for each kind of design or analysis question you will have. Now Medhi needs to make a steel structures book.

The book is great. The examples are clear and easy to follow. and THE FLOW CHARTS, my god the flow charts. There's one for each type of analysis and design problem. They give simple, step by step instructions for solving problems, including equations and tables to reference.. so so helpful. I have them all post it noted and referred to them for homework, tests etc.

Satisfactory

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