

Forensic Geotechnical and Foundation Engineering, Second Edition (Mechanical Engineering)

By Robert Day

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Forensic Geotechnical and Foundation Engineering, Second Edition (Mechanical Engineering) By Robert Day

A complete, up-to-date guide for forensic engineers

Fully revised and packed with current case studies, *Forensic Geotechnical and Foundation Engineering*, Second Edition provides a step-by-step approach to conducting a professional forensic geotechnical and foundation investigation. This authoritative resource explains how to:

Avoid civil liability Helpful charts and photographs aid in your understanding of the material covered. With expert advice on all aspects of the process--from accepting the assignment to delivering compelling testimony--this is a practical, all-in-one guide to geotechnical and foundation investigations in forensic engineering. **Explains how to investigate damage due to:**
Settlement of structures * Expansive soil * Lateral Movement * Earthquakes * Erosion * Deterioration * Bearing Capacity Failures * Shrinkage Cracking of Concrete Foundations * Timber Decay * Soluble Soil * Groundwater and Moisture Problems * And Other Causes

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Editorial ReviewFrom the Back Cover
Why did the building collapse? What caused cracking in the bridge supports? Who's responsible for the sideways settling of the shopping mall? These are the types of questions forensics engineers answer, often as expert witnesses in legal procedures. Clearly written and easy to use, this authoritative book shows you how to conduct a professional forensic geotechnical and foundation investigation. Written by a leading forensic engineer and packed with interesting case studies, it shows you step-by-step how to: INVESTIGATE damage, deterioration, or collapse in a structure. EVALUATE problems caused by settlement, expansive soil, slope movement, moisture intrusion, and more. INVESTIGATE damage from earthquakes and other natural causes. DETERMINE what caused the damage. DEVELOP repair recommendations. PREPARE files and reports. AVOID civil liability. Sulfate attack, dam failure, tree roots, decomposition of organic matter, or any other factor--no matter what caused the structural damage, this book will help you pinpoint it and, if necessary, suggest a remedy. With advice on all aspects of the process, from accepting the assignment to testifying compellingly, this book is your all-in-one guide to geotechnical and foundation investigations in forensic engineering. About the Author
Robert W. Day is a leading forensic engineer and the chief engineer at American Geotechnical in San Diego, California. He serves on advisory committees for several professional associations, including ASCE, ASTM, and NCEES. Day is the author of more than 200 published technical papers and several books, including two editions of *Foundation Engineering Handbook* and *Geotechnical Engineer's Portable Handbook*. He holds both bachelors and masters degrees in structural engineering from Villanova University and a master’s degree in civil engineering and a civil engineer degree from the Massachusetts Institute of Technology. Users Review**From reader reviews:**
Barbara Spangler:Spent a free time for you to be fun activity to accomplish! A lot of people spent their free time with their family, or their own friends. Usually they performing activity like watching television, about to beach, or picnic inside park. They actually doing same every week. Do you feel it? Do you want to something different to fill your own free time/ holiday? Could possibly be reading a book may be option to fill your free time/ holiday. The first thing that you ask may be what kinds of book that you should read. If you want to test look for book, may be the publication untitled Forensic Geotechnical and Foundation Engineering, Second Edition (Mechanical Engineering) can be good book to read. May be it could be best activity to you.
Beverly Barber:A lot of people always spent all their free time to vacation as well as go to the outside with them family or their friend. Did you know? Many a lot of people spent many people free time just watching TV, or playing video games all day long. If you wish to try to find a new activity that is look different you can read a new book. It is really fun to suit your needs. If you enjoy the book you read you can spent all day every day to reading a reserve. The book Forensic Geotechnical and Foundation Engineering, Second Edition (Mechanical Engineering) it is quite good to read. There are a lot of people that recommended this book. We were holding enjoying reading this book. In the event you did not have enough space to bring this book you can buy the actual e-book. You can m0ore simply to read this book from the smart phone. The price is not too costly but this book has high quality.
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