



Forensic Geotechnical and Foundation Engineering, Second Edition

By Robert Day

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Forensic Geotechnical and Foundation Engineering, Second Edition 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.

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.

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