



# Engineering Geology

*By Subinoy Gangopadhyay*

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## **Engineering Geology** By Subinoy Gangopadhyay

The book begins with a discussion on basic geological aspects related to rocks and minerals, geological structures, soil formation and soil classification, underground water, aerial photo study & remote sensing and geophysical and drilling exploration. This is followed by critical engineering geology topics such as soil and rock mechanics, methods of site investigation for civil engineering projects with detailed coverage for dams, reservoirs, tunnels, powerhouses, bridges, canals, power channels, and flumes, search for construction materials, treatment of geological defects, assessment and mitigation of natural hazards, and evaluation of karstic limestone terrains for reservoir projects.

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## **Editorial Review**

### **About the Author**

Subinoy Gangopadhyay served for a period of 34 years in the engineering geology division of Geological Survey of India advising on geotechnical aspects for more than a hundred civil engineering projects in India and abroad. He retired as Senior Director of this premier Government organization. Dr Gangopadhyay is a founder member of Indian Society of Engineering Geology and served as the editor and Vice President of this Society. He has written nearly 150 technical reports on geotechnical aspects of engineering projects of India including some projects abroad where he worked as a consultant. He has published numerous technical papers in reputed national and international journals.

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