Important scientific questions related to human activities can be more easily resolved with a basic scientific understanding of our planet. This is because multiple processes at and beneath the Earth's surface affect our environment. **Geology – Basics for Engineers** presents the physical and chemical characteristics of the Earth, the nature and the properties of rocks and unconsolidated deposits/sediments, the action of water, and how the earth is transformed by various phenomena at different scales of time and space. The book shows the engineer how to take geological conditions into account in his projects, how to exploit a wide range of natural resources in an intelligent way, reduce geological hazards, and manage subsurface pollution.

Through a problem-based-learning approach, this instructional text imparts knowledge and practical experience to engineering students (undergraduate and graduate level), as well as to experts in the fields of civil engineering, environmental engineering, earth sciences, land and urban planning, and architecture. The book also provides useful information to anyone who works with natural resources and guidance on taking action compatible with a sustainable future. It features many examples and illustrations chosen from around the world.

The DVD that supplements the book contains solutions to the problems and animations that show additional facets of the living Earth.

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