



# The Science of Clays: Applications in Industry, Engineering, and Environment

By Swapna Mukherjee

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## The Science of Clays: Applications in Industry, Engineering, and Environment By Swapna Mukherjee

This book is an attempt to provide a comprehensive and coherent description of three widely separated aspects of clays: the science of clays; the industrial uses of clays; and the role of clays in the environment. Most of the existing literature lacks such an integrated study and this work endeavours to fill that gap.

An exhaustive account of the science of clays is presented in Part I of the book, which includes the classification, origin and evolution, composition and internal structure, chemical and physical properties of clays; soil mechanics; and analytical techniques for determining clay constituents. Part II provides a comprehensive description of the applications of clays and their derivatives in various industries, while Part III describes the role of clays in the environment; the pollution caused by clay minerals; and the application of clays in order to prevent environmental hazards.

A principal feature of the book is its explanation of how the structure and composition of particular clay types facilitate their specific industrial or environmental applications, thus describing the interrelationship between three widely varying aspects of clay. A number of thought-provoking questions are raised at the end of the work in order to leave readers with a better insight in this regard.

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## **The Science of Clays: Applications in Industry, Engineering, and Environment** By Swapna Mukherjee **Bibliography**

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### **Editorial Review**

From the Back Cover

Materials scientific, industrial and environmental aspects of clay within two covers

Lucid explanation for classification, origin, composition, structure and property of clay

Exhaustive description of applications of clays in industries

Comprehensive discussion of the environmental aspects of clay

Worked out questions/problems and exercises at the end of each section

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