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*Clay
Mineralogy
Mcgraw Hill
Series In The
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This book is an
attempt to provide
a comprehensive

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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

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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

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evolution,
composition and
internal structure,
chemical and
physical properties
of clays; soil
mechanics; and
analytical
techniques for
determining clay
constituents. Part
II provides a

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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;

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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

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their specific industrial or environmental applications, thus describing the interrelationship between three widely varying aspects of clay. A number of thought-provoking questions are

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raised at the end
of the work in
order to leave
readers with a
better insight in
this regard.

This state-of-the-
art reference
contains chapters
on all aspects of
the
characterization of

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minerals, metals,
and materials. The
title presents

papers from one of
the largest yearly
gatherings of
materials scientists
in the world and
thoroughly

discusses the
characterization of
minerals, metals,

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and materials The
scope includes
current industrial
applications and
research and
developments in
the following
areas: •

Characterization of
Ferrous Metals •

Characterization of
Non-Ferrous

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Materials •
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Sciences
Minerals and
Ceramics •
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Technologies •
Characterization of
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Construction
Materials •
Characterization of
Energy, Electronic

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and Optical
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Carbon and Soft
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Characterization of
Light Metals An
excellent reference
for global
extractive and
process metallurgy
industries,

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materials scientists
and engineers,

metallurgists, and

mechanical

engineers.

Properties and

Therapeutic Uses

Smart Polymers

Mineral

Biotechnology

2002

The Science of

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Clays

Handbook of Clay
Science

Originally
published in
French, this
updated and
expanded English
translation offers a
definitive treatment
on clays and
effects on human

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health including
the long history of
clays used as
pharmaceutical
and therapeutic
agents, the origins
of clays, their
structural
properties and
modes of action.
The meeting was
organized by a

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local university
committee and
205 delegates
from 35 countries
took part.

European
participation was
low due to the
economic crisis
experienced by
national air lines.

During the

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conference, the
AIPEA medals
were awarded to
Gerhard Lagaly
and Tom
Pinnavaia. This
volume of the
Conference
Proceedings
contains 85 out of
a total of 235 oral
presentations and

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posters presented
at the following
symposia:

Teaching Clay

Mineralogy, Clays

in Hydrothermal

Deposits, Clays in

Ceramics, Clays in

Petroleum

Exploration and

Production, Clay

Barriers, and

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Waste
Management, as
well as in the
following general
sessions of the
Conference: Clays
in Geology, Clay
Minerals and
Environment, Soil
Mineralogy,
Methods, Crystal
Chemistry

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Structure and
Synthesis, and
Clays in Industry.

Proceedings of the

12th International

Clay Conference,

Bahía Blanca,

Argentina, July

22-28, 2001

Minerals Yearbook

Catalog of

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Third Series

Encyclopedia of

Sedimentology

Characterization of

Minerals, Metals

and Materials

The first edition of

the Handbook of

Clay Science

published in 2006

assembled the

scattered literature

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on the varied and diverse aspects that make up the discipline of clay science. The topics covered range from the fundamental structures (including textures) and properties of clays and clay minerals, through their

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environmental,
health and
industrial
applications, to
their analysis and
characterization by
modern
instrumental
techniques. Also
included are the
clay-microbe
interaction, layered
double hydroxides,

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zeolites, cement hydrates, and genesis of clay minerals as well as the history and teaching of clay science. The 2e adds new information from the intervening 6 years and adds some important subjects to make

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this the most
comprehensive and
wide-ranging
coverage of clay
science in one
source in the
English language.
Provides up-to-
date,
comprehensive
information in a
single source
Covers applications

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of clays, as well as
the instrumental
analytical
techniques

Provides a truly
multidisciplinary
approach to clay
science

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(booknews.com).
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and Pathologies

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Reactions

Encyclopedia of
Geomorphology

Information Circular

***"In recent
decades there
have been major
developments in***

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**geomorphology
and these are
reflected in this
major
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the first such
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in the field to be
published for
thirty-five
years"--Provide
d by publisher.**

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Clay Minerals.
Sheet silicates.**

**Volume 3C
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Studies Series
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**Editor - Robert
R. Shrock]**

Includes Part 1A,

Number 1: Books

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Part 1B, Number 1:

Pamphlets, Serials

and Contributions to

Periodicals (January

- June)

This volume

provides a

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**comprehensive
academic review of
both positive and
negative effects of
minerals on human
health and quality of
life. The book adopts
the concept of
mineral latu sensu
(mineral l.s.), which
encompasses a broad
spectrum of natural,
inorganic, solid, and**

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**crystalline, of
natural and
inorganic chemical
elements (metals and
metalloids), of
modified natural
minerals, of
biominerals, and of
syntetic minerals, all
products that branch
across the disciplines
of earth, soil,
environmental,**

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framework, the
authors are able to
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and hazardous to
human health,**

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and biophysics. The

book performs

historical analyses of

the uses of minerals

for therapeutic and

cosmetic purposes to

better understand

better understand

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**current trends and
developments in
mineral research and
human health. The
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interest to students,
public health
officials,
environmental
agencies and
researchers from
various disciplines,
as well as scientific**

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**societies and
organizations
focusing on medical
geology, health
resort medicine
(crenotherapy,
hydrotherapy and
climatotherapy), and
on pharmaceutical,
cosmetic and
biomedical
applications.**

Rock-forming

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Minerals

Applied Clay

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Pittsburgh, Pa

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The first book

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to tackle the
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smart polymers

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and

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broke new
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the footsteps
of its

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chromolecules,
i.e. smart
hydrogels. The

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on the theory
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when grafted
to surfaces.

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and organic
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silicate***

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microprobe
method. This
book will be***

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*of interest to
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chemists, and
crystallographers.*

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Occurrences,

Processing and

Applications

of Kaolins,

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Common Clays***

Industrial

Minerals &

Rocks

The Origin of

Clay Minerals

in Soils and

Weathered

Rocks

Rocks

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Of huge relevance in a number of fields, this is a survey of the different processes of soil clay mineral formation and the consequences of these processes concerning the soil ecosystem, especially plant and mineral. Two independent systems

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form soil materials. The first is the interaction of rocks and water, unstable minerals adjusting to surface conditions. The second is the interaction of the biosphere with clays in the upper parts of alteration profiles.

Introduction; Structure and properties of the Clay Minerals; Clays in ceramic products; Clays

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in foundry molding
sands; Clay mineralogy
in relation to the
engineering properties
of clay materials; Clays
in the discovery and
recovery of petroleum;
Clays in refining and
preparation of organic
materials; Clays in
miscellaneous uses.

Minerals latu sensu and
Human Health
Applications in

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Biotechnology and
Biomedicine, Second
Edition

Clays and Health

1953: January-June

The first general texts on clay mineralogy and the practical applications of clay, written by R.E. Grim, were published some 40-50 years ago. Since then, a vast literature

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has accumulated but this information is scattered and not always accessible. The Handbook of Clay Science aims at assembling the scattered literature on the varied and diverse aspects that make up the discipline of clay science. The topics covered range from the fundamental structures (including

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textures) and properties of clays and clay minerals, through their environmental, health and industrial applications, to their analysis and characterization by modern instrumental techniques. Also included are the clay-microbe interaction, layered double hydroxides, zeolites,

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cement hydrates,
genesis of clay minerals
as well as the history
and teaching of clay
science. No modern
book in the English
language is available
that is as comprehensive
and wide-ranging in
coverage as the
Handbook of Clay
Science. In providing a
critical and up-to-date
assessment of the

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accumulated
information, this will

serve as the first point of

entry into the literature

for both newcomers and

graduate students, while

for research scientists,

university teachers,

industrial chemists, and

environmental engineers

the book will become a

standard reference text.

* Presents contributions

from 66 authors from 18

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different countries who have come together to produce the most comprehensive modern handbook on clay science * Provides up-to-date concepts, properties, and reactivity of clays and clay minerals in a one-stop source of information * Covers classical and new environmental,

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industrial, and health applications of clays, as well as the instrumental techniques for clay mineral analysis *

Combines geology, mineralogy, crystallography with physics, geotechnology, and soil mechanics together with inorganic, organic, physical, and colloid chemistry for a truly multidisciplinary

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approach

This book on Applied

Clay Mineralogy is

comprehensive. It

covers the structure,

composition, and

physical and chemical

properties of kaolinite,

halloysite, ball clays;

bentonites including

sodium montmorillonite,

calcium

montmorillonite, and

hectorite; and

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palygorskite and sepiolite. There is also a short chapter on common clays which are used for making structural clay products and lightweight aggregate. The location and geology of the major clay deposits that are marketed worldwide and regionally include kaolins from the United States, Southwest

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England, Brazil, and the Czech Republic along with halloysite from New Zealand and ball clays from the US, England, Germany, and Ukraine. Bentonites from the U.S. and Europe are included along with palygorskite and sepiolite from the U.S., China, Senegal, and Spain. The mining and processing of the

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various clays are described. Extensive discussions of the many applications of the clays are included. The appendices cover the important laboratory tests that are used to identify and evaluate the various types of clay. Many figures are included covering electron micrographs, processing flow sheets,

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stratigraphy, and
location maps.*
Provides the structure
and composition of clay
minerals, as well as
their physical and
chemical properties *

Discusses pplications
for Kaolin, Bentonite,
Palygorskite and
Sepiolite * Contains
appendixes of
laboratory tests and
procedures, as well as a

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Dictionary of Geology
and Mineralogy

Applications in Industry,
Engineering, and

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Environment

The book provides insight into the working of clays and clay minerals in speeding up a variety of organic reactions. Clay minerals are known to have a large propensity for taking up organic molecules and can catalyse numerous organic reactions due to fine

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particle size, extensive surface area, layer structure, and peculiar charge characteristics. They can be used as heterogeneous catalysts and catalyst carriers of organic reactions because they are non-corrosive, easy to separate from the reaction mixture, and

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*reusable. Clays and
clay minerals have an
advantage over other
solid acids as they are
abundant,
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polluting.*

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