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Soil Genesis And Classif ication

*This profusely
illustrated
book gives an
exhaustive
account of the*

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*principal
types of soils
of our planet.
The
"progressive
descent of
weathering
fronts" model,
recognized and
used by
eminent
international*

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*scientists is
the guiding
principle of
choice to link
the
observations
and to give
the reader a
synthetic and
coherent view
of the
differentiati*

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*Soils form a
unique and
irreplaceable
essential
resource for
all
terrestrial
organisms,
including man.
Soils form not
only the very
thin outer*

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Classification

*skin of the
earth's crust
that is
exploited by
plant roots
for anchorage
and supply of
water and
nutrients.
Soils are
complex
natural bodies*

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*formed under
the influence
of plants,
microorganisms
and soil
animals, water
and air from
their parent
material, i.e.
solid rock or
unconsolidated
sediments.*

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*Physically,
chemically and
mineralogically
they usually
differ
strongly from
the parent
material, and
normally are
far more
suitable as a
rooting medium*

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for plants. In addition to serving as a substrate for plant growth, including crops and pasture, soils play a dominant role in the biogeochemical

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*cycling of
water, carbon,
nitrogen and
other
elements,
influencing
the chemical
composition
and turnover
rates of
substances in
the atmosphere*

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Classification

*and the
hydrosphere.
Soils take
decades to
millennia to
form. We tread
on them and do
not usually
see their
interior, so
we tend to
take them for*

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*granted. But
improper and
abusive
agricultural
management,
careless land-
clearing and
reclamation,
man-induced
erosion,
salinisation
and*

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*acidification,
desertificatio
n, air- and
water
pollution, and
withdrawal of
land for
housing,
industry and
transportation
now destroy
soils more*

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*rapidly than
they can be
formed.*

*This
publication,
Keys to Soil
Taxonomy,
Twelfth
Edition, 2014,
coincides with
the 20th World
Congress of*

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*Soil Science,
to be held on
Jeju Island,
Korea in June
2014. The Keys
to Soil
Taxonomy
serves two
purposes. It
provides the
taxonomic keys
necessary for*

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the

*classification
of soils in a
form that can
be used easily
in the field.*

It also

acquaints

*users of soil
taxonomy with*

*recent changes
in the*

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*classification
system. The
twelfth
edition of the
Keys to Soil
Taxonomy
incorporates
all changes
approved since
the
publication in
1999 of the*

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*second edition
of Soil*

*Taxonomy: A
Basic System
of Soil*

*Classification
for Making and
Interpreting
Soil Surveys.*

*The authors of
the Keys to
Soil Taxonomy*

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*are identified
as the ?Soil
Survey Staff.?
This term is
meant to
include all of
the soil
classifiers in
the National
Cooperative
Soil Survey
program and in*

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the

*international
community who
have made*

*significant
contributions
to the*

*improvement of
the taxonomic
system.*

*Studyguide for
Soil Genesis*

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and

Classification
by Stanley W.

Buol, Isbn

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The Soils of
Croatia

Recent

Developments
in Soil

Genesis and

Classification

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*Factors of
Soil Formation
Soil Genesis,
Soil
Classification
and Soil
Survey
Interpretation of
Micromorphological
Features of Soils and
Regoliths, Second
Edition, provides*

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researchers and students with a tool for interpreting features observed in soil thin sections and through submicroscopic studies. After an introduction and general overview, micromorphological aspects of regoliths (e.g., saprolites,

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transported materials)
are highlighted,
followed by a
systematic and
coherent discussion of
the
micromorphological
expression of various
pedogenic processes.
The book is written by
an international team
of experts in the field,
using a uniform set

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of concepts and terminology, making it a valuable interdisciplinary reference work. The following topics are treated: freeze-thaw features, redoximorphic features, calcareous and gypsiferous formations, textural features, spodic and

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*oxic horizons,
volcanic materials,
organic matter,
surface horizons,
laterites, surface
crusts, salt minerals,
biogenic and
pedogenic siliceous
materials, other
authigenic silicates,
phosphates, sulphidic
and sulphuric
materials, and*

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features related to faunal activity. The last chapters address anthropogenic features, archaeological materials and palaeosoils. Updates the first exhaustive publication on interpretation of micromorphological features, with some new chapters and with

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*a larger number of
additional references
Covers related topics,
making
micromorphology
more attractive and
accessible for
geomorphologists,
archaeologists and
quaternary geologists
Includes thematic
treatment of a range
of soil*

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micromorphology

fields and broadens

its applications

Features input from a

multi-disciplinary

team, ensuring

thorough coverage of

topics related to soil

science, archaeology

and geomorphology

This book was born as

an international

tribute to Fiorenzo C.

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*Ugolini, an
outstanding soil
scientist, now retired
from university
teaching and
research. It is a
synthesis of the
knowledge of soils,
their genesis,
functions and
management, and
includes contributions
from leading soil*

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scientists. It provides the basic concepts as well as data and practical examples from across the discipline. The book also discusses the increasingly important role of soils in enabling the preservation of life and contains a rare attempt to cross-

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*harmonize the Soil
Groups of the World
Reference Base of
Soil Resources with
the Orders of the Soil
Taxonomy. It also
considers the possible
existence of
extraterrestrial soils
based on the findings
from the last space
missions. This volume
will be a valuable*

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*resource for
researchers and
students of soil
science, soil
conservation,
geography and
landscape ecology.
Soils: Genesis and
Geomorphology is a
comprehensive and
accessible textbook on
all aspects of soils.*

The book's

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introductory chapters on soil morphology, physics, mineralogy and organisms prepare the reader for the more advanced and thorough treatment that follows. Theory and processes of soil genesis and geomorphology form the backbone of the

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book, rather than the emphasis on soil classification that permeates other less imaginative soils textbooks. This refreshingly readable text takes a truly global perspective, with many examples from around the world sprinkled throughout. Replete

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with hundreds of high quality figures and a large glossary, this book will be invaluable for anyone studying soils, landforms and landscape change. Soils: Genesis and Geomorphology is an ideal textbook for mid- to upper-level undergraduate and

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graduate level courses in soils, pedology and geomorphology. It will also be an invaluable reference text for researchers.

Wetland Soils

By S. W. Buol, F. D.

Hole and R. J.

McCracken

*Major Soil Groups of
the World*

Soil Genesis and

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*Classification Along
a Topographic
Transect in Togo,
West Africa
Genesis, Hydrology,
Landscapes, and
Classification*
**In its first
edition, Soils
established itself
as the leading
textbook in the
fields of**

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***pedology and
soil
geomorphology.
Expanded and
fully updated,
this second
edition maintains
its highly
organized and
readable style.
Suitable as a
textbook and a
research-grade
reference, the***

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**book's
introductory
chapters in soil
morphology,
mineralogy,
chemistry,
physics and
organisms
prepare the
reader for the
more advanced
treatment that
follows. Unlike
its competitors,**

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***this textbook
devotes
considerable
space to
discussions of
soil parent
materials and
soil mixing,
along with
dating and paleo
environmental
reconstruction
techniques
applicable to***

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soils. Although introductions to widely used soil classification systems are included, theory and processes of soil genesis and geomorphology form the backbone of the book. Replete with more than 550 high-quality

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***figures and
photos and a
detailed
glossary, this
book will be
invaluable for
anyone studying
soils, landforms
and landscape
change
anywhere on the
globe.
Never HIGHLIGHT
a Book Again!***

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**Masterpiece
offers a detailed
discussion of the
nature of the**

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**earth's
terrestrial
environment,
and a method of
subdividing and
studying it. 1941
edition.**

**Soils: Basic
Concepts and
Future
Challenges
Soil Genesis and
Classification in
the Whiteoak**

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***Mountain Fault
Block in East
Tennessee
Soil Genesis and
Classification of
Ten Pedons
Using Soil
Characterization
Laboratory Data
and Field Soil
Survey in Cades
Cove, Great
Smoky
Mountains***

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National Park

***Soil Genesis And
Classification,
5Th Ed.***

Morphology of soils;
Soil
micromorphology;
Soil composition and
characterization;
Weathering and soil
formation;
Pedogenic

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processes: internal,
soil-building
processes; Soil
environment:
External factors of
soil formation;
Parent material:
initial material of the
solum; Relief and
landscape factors of
the soil and its
environment;
Contributions of

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climate to the total
soil environment;
Organisms:
biological portion of
the soil and its
environment; Time
as a factor of soil
formation; Principles
and historical
development of soil
classification;
Modern soil
classification

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systems;

Entisols: recently
formed soils:

Vertisols: shrinking
and swelling dark
clay soils; In

ceptisols: emleryonic
soils with few
diagnostic features;

Aridisols: soils of
arid regions;

Mollisols: grassland
soils of steppes and

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prairies; Spodosols: soils with subsoil, accumulations of sesquioxide and humus; Alfisols: high base status soils; Ultisols: low base status forest soils; Oxisols: sesquioxide - rich, highly weathered soils of the intertropical regions; Histosols:

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organic soils.

This book is a discussion of the study of soils as a component of earth science applications in archaeology, a subdiscipline known as geoarchaeology. The volume focuses on how the study of soils can be integrated with other

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aspects of archaeological and geoscientific research to answer questions regarding the past. Anyone who needs to know how soils can be used to help answer archaeological questions will be interested in this work.

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Soil Genesis and
Classification Iowa
State Press

Soils in
Archaeological
Research

Soil genesis and
classification

Genesis and
Geomorphology

Morphology,
Genesis, and
Classification

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The Soils of Libya

This book presents the soil pedodiversity in Libya. Soils are the source of all life; there can be no life without them. Further, each soil has its own history and its present conditions, which have been shaped by many different factors (e.g. climate, biota, parent material, and relief or

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topography). The book, divided into eight chapters, provides extensive information on Libyan soils.

Chapter one provides an introduction and a broad perspective of the subject, while Chapter two covers the history of soil mapping and research in Libya.

Chapter three focuses on local factors of soil

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formation and describes the geology and climate of the region to explain the diversity of its soils. Chapter four discusses soil classification systems and those most commonly used in the country. The fifth chapter illustrates the constraints and limiting factors that negatively affect agricultural

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activities across the country. The land cover/land use and the vegetation of the country are described in Chapter six. In turn, Chapter seven presents the status quo of soil biology, the corresponding related research activities, and the other biological properties of Libyan soils. The final chapter

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(Chapter eight) focus on land degradation and desertification in Libya, emphasizing the main causes, impacts of the phenomena, and efforts to combat it.

This book demonstrates the problems that the country is currently facing as a result of climate change, soil erosion, salinization, and pollution, and

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*outlines potential
remedies to improve
local food security.
Bringing together the
perspectives and
expertise of many
distinguished scientists
from various
universities and
institutions in and
outside of Libya, the
book represents a
unique and highly
valuable resource.*

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Unbiased in approach, this book discusses the physical and chemical land and soil requirements needed to produce food and how economic, social, and political environments influence agricultural productivity. Presenting an array of soil and land properties and farming methods- ranging from slash and

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burn to highly technical practices-the author draws on his 40 years of worldwide experience to give readers a glimpse at the historical developments, natural resource concerns, and farming practices impacting human food production today.Presents the basics of how soils and

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land function and examines the impact of water, temperature and chemical elements on food production using minimal scientific terminology. Moves beyond explaining the physical and chemical requirements of human food production to encompass the economic, social and political factors that

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impact farming practices and overall productivity. Covers current farming methods being used in other countries, from the recent advances in farming on the poorest soils to the slash and burn farming in tropical jungles. Presents historical data to show how modern practices have reduced

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the cost of food and the amount of land needed to feed a growing population. Provides a strong foundation and makes later chapters on leaching, ground water contamination, floods and erosion easier to understand.

Emphasizes the delicate balance of essential elements from the air and in the soil and

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presents the basic physical and chemical dynamics of the human food chain. Those looking for an easy to understand introduction to how and why various types of soil and land are used for human food production.

Soil Genesis That Studies The Evolution Of Soils And The

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*Changes Taking Place
In Soil Bodies Has
Received Increasing
Interest And Attention
In The Twentieth
Century, And This Yet
Continues. Despite The
Fact That The Indian
Soil Scientists Have
Made Much
Investigation Into The
Subject Of Soil
Genesis, Classification,
Survey And Evaluation,*

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There Are Very Few Books That Provide Ample Instructional Material Relevant To Situation In India. The Present Book Is Primarily Focused On The Study Of Geological Conditions Of India. Briefly Outlining The Fundamental Concepts Of Soil Genesis And Acquainting The

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*Readers With Rich
Minerals Present
Under The Soil, The
Book Provides A
Detailed Study Of The
Factors And Processes
Of Soil Formation,
Including Description
And Interpretation Of
The Soil Profile And
Patterns Of Soils
Occurring On The
Surface Of The Earth.
Furthermore, It Lays*

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*Down The Purpose
And The Historical As
Well As Modern Basis
Of Classification Of
Soils In Different
Countries Across The
World. It Particularly
Provides An In-Depth
Study Of Soils
Prevalent In The
Varied States Of India
In Addition To The
Assessment Of
Productivity Of Bench*

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*Mark Soils Of The
Country. The Book
Also Covers Significant
Areas Like Remote
Sensing, Soil Survey,
Land Use, Land
Capability
Classification, Land
Irrigability
Classification, Land
Evaluation, Land Use
Planning And
Cartography.
Considerable Authentic*

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Information Has Been Drawn From The Works Of Indian Soil Scientists In These Disciplines Which Has Necessarily Added To The Value Of The Book. Designed As A Textbook, Its Approach To The Subject Is Reader-Friendly. Its Simple Language And Lucid Style Make It Accessible Even To

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Average Students. It Is Hoped That The Book Will Prove Immensely Useful And Informative To Students And Teachers Of Geology As Well As Soil Surveyors.

*Soil Formation
Soils*

*Soil Genesis and
Classification*

*Interpretation of
Micromorphological*

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***Features of Soils and
Regoliths***

Soils of South Africa

Soils of South Africa is the first book in seventy years that provides a comprehensive account of South African

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soils. The book arranges more than seventy soil forms into fourteen groups and then provides, for each group:

- maps showing their distribution

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and abundance
throughout
South Africa •
descriptions
of
morphological,
chemical and
physical
properties • a
detailed
account of
classification

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and its
correlation
with
international
systems • a
discussion of
soil genesis
which includes
a review of
relevant
research
papers •

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appraisal of
soil quality
from a land
use
perspective as
well as for
its ecological
significance •
illustrative
examples of
soil profiles
with

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analytical
data and
accompanying i
nterpretations
. There is
also a
fascinating
account of the
special
relationship
that exists
between South

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African

animals and

soil

environments.

Soils of South

Africa should

interest

students and

researchers in

the earth,

environmental

and biological

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sciences, as well as environmental practitioners, farmers, foresters and civil engineers.

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conventions
for describing
soils.

Intended to be
both current
and usable by
the entire
soil science
community. The
text explores
the types of
soil

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techniques and includes a Field Equipment checklist with samples of common soil equipment as part of the field guide. Other related products: Keys

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Taxonomy

(2014) can be
found here:

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Keys to Soil
Taxonomy, 2010
can be found
here: <https://>

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/bookstore.gpo.gov/products/sku/001-000-04745-1 Drainage Manual can be found here:

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Modeling With
Participatory
Processes to
Make Water
Resources
Decisions can
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Measurement

Manual: A

Guide to

Effective

Water

Measurement

Practices for

Better Water

Management can

be found here:

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Ground Water
Manual: A
Guide for the
Investigation,
Development,
and Management
of Ground-
Water

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No further
information
has been
provided for
this title.
Soils, Land,

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and Life

A System of
Quantitative
Pedology
Genesis,
Properties and
Utilization
Mycorrhizosphe
re and
Pedogenesis
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Survey and
Evaluation

The Soils of Croatia is a six-chapter book detailing all aspects of Croatian soils. The book presents, in a reader friendly way, the lively history of pedology in Croatia. It explains soils as natural resources for

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this country and offers a detailed view on the different agricultural regions referenced in Croatia. The Soils of Croatia also contains useful information regarding the different factors of soil genesis in the different regions as well as on soil taxonomy and it gives a very detailed

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classification of
different Croatian
Soils. Overall, this
book contains
everything that
pedologists, students
and anyone else
interested in Croatian
soils should know
about.

Fundamental
properties of soils;
Factors of soil

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formation; Processes in the soil system; Properties of soil horizons; Nomenclature and classification; Soil classes of the world; Soil relationships. Soil Genesis and Classification, Sixth Edition, builds on the success of the previous editions to

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present an

unparalleled resource
on soil formation and
classification.

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section containing
multiple soil profiles,
this text also includes
information on new
classification systems
and emerging
technologies and
databases with

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updated references throughout. Covering the diverse needs of both the academic and professional communities, this classic text will be a must have reference for all those in soil science and related fields.

Ecology, Genesis,
Properties and

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Classification

Soil Taxonomy

Their Formation,
Classification and
Distribution

Soil

Soil Genesis and
Classification of the
High Stream Terraces
on the Eastern
Highland Rim in
Tennessee

The present book

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highlights
importance of
mycorrhiza in soil
genesis wherein it
reflects
mycorrhizal
occurrence and
diversity, various
tools to
characterize them
and its impact on
soil

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formation/health together with crop productivity. The edited compendium provides glimpses on the mycorrhizal fungi and their prominent role in nutrient transfer into host plants, and presenting

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view on application
of mycorrhiza for
crop
biofortification. It
focuses on the
mechanisms
involve in
weathering
process employed
by mycorrhiza with
highlighting the
current and

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advanced
molecular
approaches for
studying
mycorrhizal
diversity. Further,
book emphasizes
following aspects
in details:
significance of
AMF in
phytoremediation

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of hydrocarbon
contaminated
sites, the role of
mycorrhiza in soil
genesis using
scientometric
approach, the
concept of
mycorrhizosphere,
xenobiotic
metabolism,
molecular

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approaches for
detoxifying the
organic
xenobiotics and
the role of
mycorrhizosphere
in stabilizing the
environment in an
eco-friendly way.
In addition, the
book will be
benign to

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researchers that
involved in
mycorrhiza
characterization
especially by
deploying metagen
omics/PCR based
and non PCR
based molecular
techniques that
may be utilized to
study the microbial

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diversity and
structure within the
mycorrhizosphere.
Concepts and
definitions of soil;
terminology and
relationships
between segments
of the earth's crust;
ABC system of
horizon
nomenclature;

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introduction to
ways of thinking
about and studying
soil genesis;
mineral and
organic matter
transformation;
eluviation and
illuviation and
closely related
processes
(diffusion, wicking);

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phyto- and other
biocycling;
pedoturbation and
soil structure
formation; erosion,
alluvation and
other additions to
soils; sulfidization
and sulfuricization;
salinization,
solonization, and
solodization;

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calcification;
lessivage;
podzolization;
latosolization and
lateritization;
gleization; general
principles and
kinds of soil
classification
systems; soil
classification in the
past - roots and

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philosophies;
history leading to
the development
of soil taxonomy;
pedons and
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