

File Type PDF
Carbonate
Reservoirs
**Carbonate
Porosity Evolution
Reservoirs
Diagenesis In A
Sequence
Stratigraphic
Framework
Diagenesis
Volume 33
In A
Sedimentology
Sequence St
ratigraphic
Framework**

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Carbonate

**Volume 55 D
evelopments
In Sediment
ology**

Diagenesis research is the foundation of hydrocarbon reservoir characterization and exploration. Reactive transport modeling

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Reservoirs

Porosity Evolution

Diagenesis research,

with unique capability

of quantification and

forward modeling of

the coupled thermo-

hydro-chemical

processes of

diagenesis. Using

TOUGHREACT

simulator, this thesis

investigates the two

most important fluid-

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Reservoirs

Porosity Evolution

Dolomitization and

Karstification, based

on generic model

analyses and a case

study in the Ordos

Basin, China. In

particular, this study

attempts to

quantitatively

characterize the

diagenetic processes

and to reconstruct the

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Reservoirs

diagenesis-porosity

evolution of

carbonate reservoirs.

Some controversies in

carbonate diagenesis

research, which

cannot be well

explained by classical

geological methods,

have also been

discussed. The results

are helpful to better

understand the

spatial-temporal

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Reservoirs

Porosity Evolution

Digenesis: A

Sequence

Stratigraphic

Framework

Volume 55

Developments In

Sedimentology

distribution and co-
evolution of diagenesi
s-mineral-porosity
during the
complicated
diagenetic processes
with their potential
controlling factors,
and to reduce the
uncertainty of
reservoir quality
prediction.

Advanced textbook
outlining the physical,

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Reservoirs

chemical, and
biological properties
of sedimentary rocks

through petrographic
microscopy,

geochemical
techniques, and field
study.

The monograph
offers a

comprehensive
discussion of the role
of evaporites in
hydrocarbon

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Reservoirs

generation and trapping, and new

information on low

temperature and high

temperature ores. It

also provides a

wealth of information

on exploitable salts,

in a comprehensive

volume has been

assembled and

organized to provide

quick access to

relevant information

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Reservoirs

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Framework

Volume 55

Developments In

Sedimentology

on all matters related

to evaporites and

associated brines. In

addition, there are

summaries of

evaporite karst

hazards, exploitative

methods and

problems that can

arise in dealing with

evaporites in

conventional and

solution mining. This

second edition has

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Reservoirs

Porosity Evolution

Diagnosis In A

Sequence

Stratigraphic

Framework

Volume 55

Developments In

Sedimentology

been revised and extended, with three new chapters focusing on ore minerals in different temperature settings and a chapter on meta-evaporites.

Written by a field specialist in research and exploration, the book presents a comprehensive overview of the

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Reservoirs

Porosity Evolution

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Framework

Volume 55

Developments In

Sedimentology

Sequence

stratigraphy is a

powerful tool for the

prediction of

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Reservoirs

depositional porosity
and permeability, but

does not account for

the impact of

diagenesis on these

reservoir parameters.

Therefore, integrating

diagenesis and

sequence stratigraphy

can provide a better

way of predicting

reservoir quality. This

special publication

consists of 19 papers

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Reservoirs

(reviews and case studies) exploring

Porosity Evolution

Different aspects of

the integration of

diagenesis and

sequence stratigraphy

in carbonate,

siliciclastic, and

mixed carbonate-

siliciclastic

successions from

various geological

settings. This book

will be of interest to

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Reservoirs

sedimentary

petrologists aiming to

understand the

distribution of

diagenesis in

siliciclastic and

carbonate

successions, to

sequence

stratigraphers who

can use diagenetic

features to recognize

and verify interpreted

key stratigraphic

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Reservoirs

surfaces, and to

porosity evolution
petroleum geologists

who wish to develop

more realistic

conceptual models for

the spatial and

temporal distribution

of reservoir quality.

This book is part of

the International

Association of

Sedimentologists

(IAS) Special

Publications. The

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Reservoirs

Special Publications
from the IAS are a set

of thematic volumes

edited by specialists

on subjects of central
interest to

sedimentologists.

Papers are reviewed
and printed to the

same high standards

as those published in
the journal

Sedimentology and

several of these

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Reservoirs

volumes have become
standard works of

reference.

Seismic

Characterization of
Carbonate Platforms
and Reservoirs

Porosity and
Diagenesis in a

Sequence

Stratigraphic

Framework

Fundamental Controls
on Fluid Flow in

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Carbonate

Reservoirs

Carbonates

From Sedimentary

Environments to Rock

Physics

Chapter 9. Summary

of Early Diagenesis

and Porosity

Modification of

Carbonate Reservoirs

in a Sequence

Stratigraphic and

Climatic Framework

Hydrocarbon

Habitats, Basin

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Reservoirs

Formation, and Plate

Tectonics, AAPG

Memoir 79

This book

presents an

overview of

techniques that

are available to

characterize

sedimentary

aquifers.

Groundwater flow

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Reservoirs

and solute

Porosity Evolution

transport are

Diagenesis In A

strongly affected

Sequence

by aquifer

Stratigraphic

heterogeneity.

Framework

Improved aquifer

Volume 55

characterization

Developments In

can allow for a

Sedimentology

better conceptual

understanding of

aquifer systems,

which can lead to

File Type PDF

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Reservoirs

more accurate

Porosity Evolution

groundwater

Diagenesis In A

models and

Sequence

successful water

Stratigraphic

management

Framework

solutions, such as

Volume 55

contaminant

Developments In

remediation and

Sedimentology

managed aquifer

recharge systems.

This book has an

applied

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Reservoirs

perspective in
that it considers
the practicality of
techniques for
actual

groundwater
management and
development
projects in terms
of costs, technical
resources and
expertise

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Reservoirs

required, and

investigation

time. A discussion

of the geological

causes, types, and

scales of aquifer

heterogeneity is

first provided.

Aquifer

characterization

methods are then

discussed,

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Reservoirs

Porosity Evolution

Diagenesis In A

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Framework

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Developments In

Sedimentology

followed by chapters on data upscaling, groundwater modelling, and geostatistics. This book is a must for every practitioner, graduate student, or researcher dealing with

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Reservoirs

aquifer

Porosity Evolution
characterization .

Diagenesis In A
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Sequence
Reservoirs:

Stratigraphic
Porosity,

Evolution and

Volume 55
Diagenesis in a

Developments In
Sequence

Sedimentology
Stratigraphic

Framework

Most of the

world's energy

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Porosity Evolution

Diagenesis In A

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Framework

Volume 55

Developments In

Sedimentology

still comes from

fossil fuels, and

there are still

many strides

being made in the

efficiency and

cost effectiveness

of extracting

these important

and increasingly

more elusive

natural resources.

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Reservoirs

Porosity Evolution

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Developments In

Sedimentology

This is only possible if the nature of the emergence, evolution, and parameter estimation of high grade reservoir rocks at great depths is known and a theory of their forecast is

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Reservoirs

developed. Over

Porosity Evolution

60 percent of

Diagenesis In A

world oil

Sequence

production is

Stratigraphic

currently

Framework

associated with

Volume 55

carbonate

Developments In

reservoir rocks.

Sedimentology

The exploration,

appraisal and

development of

these fields are

File Type PDF

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Reservoirs

significantly
porosity evolution
complicated by a
Diagenesis In A
number of factors.

Sequence
These factors

Stratigraphic
include the

Framework
structural

Volume 55
complexity of the

Developments In
carbonate

Sedimentology
complexes,

variability of the

reservoir rock

types and

File Type PDF

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Reservoirs

properties within
a particular

deposit, many
unknowns in the

evaluation of
fracturing and its

spatial variability,
and the

preservation of
the reservoir rock
qualities with

depth. The main

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Reservoirs

Porosity Evolution

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Developments In

Sedimentology

objective of most studies is discovering patterns in the reservoir rock property changes of carbonate deposits of different genesis, composition and age. A short list of the unsolved

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

Stratigraphic

Framework

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Developments In

Sedimentology

issues includes:
the role of facies
environment in
the carbonate
formation; the
major geologic
factors affecting
the formation of
high-capacity
reservoir rocks
and preservation
of their

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Reservoirs

properties;

recommendations

as to the use of

the new

techniques in

studies of the

structural

parameters; and

establishing a

correlation

between the

major evaluation

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Reservoirs

parameters. The
Porosity Evolution
focus of this

Diagenesis In A
Sequence
volume is to show

Stratigraphic
Framework
the scientific and

Volume 55
Developments In
Sedimentology
engineering

community a

revolutionary

process. The

author perfected

an earlier

developed

methodology in

File Type PDF

Carbonate

Reservoirs

studies of the void
space structure

(Bagrintseva's
method, 1982).

This methodology
is based on

carbonate rock
saturation with
luminophore and

on special
techniques in
processing of

File Type PDF

Carbonate

Reservoirs

photographs
made under UV

light. The

luminophore

technique was

combined with the

raster electron

microscopy and

its variation, the

studies under the

cathode

luminescence

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Reservoirs.

Porosity Evolution

Diagenesis In A

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Framework

Volume 55

Developments In

Sedimentology

regime. This combination enabled a more detailed study of the reservoir void space, the nonuniformity in the open fracture evolution, their morphology, length and variability of

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Reservoirs

openness. Over recent years these techniques have found wide application.

Useful for the veteran engineer or scientist and the student alike, this book is a must-have for any geologist,

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Reservoirs

engineer, or
student working

Porosity Evolution

in the field of

Diagenesis In A

Sequence

upstream

Stratigraphic

petroleum

Framework

engineering.

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Developments In

Reservoirs:

Sedimentology

Porosity,

Evolution and

Diagenesis in a

Sequence

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Stratigraphic Framework

Porosity Evolution

Diagenesis In A

Reactions and

Sequence

Processes in

Aquifers and

Reservoirs

Volume 55

Seismic

Geomorphology

Sedimentology

From prekarst to

cessation

Analysis,

Interpretation and

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Reservoirs

Application

Porosity Evolution

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Diagenesis In A

Reservoir

Sequence

Heterogeneity

Stratigraphic

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Framework

Geochemistry

Volume 55

This unparalleled

reference synthesizes

the methods used in

microfacies analysis

and details the

potential of

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Reservoirs

microfacies in

evaluating

depositional

environments and

diagenetic history,

and, in particular, the

application of

microfacies data in

the study of carbonate

hydrocarbon

reservoirs and the

provenance of

archaeological

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Reservoirs

materials. Nearly 230

instructive plates (30

in color) showing thin-

section photographs

with detailed

explanations form a

central part of the

content. Helpful

teaching-learning

aids include detailed

captions for hundreds

of microphotographs,

boxed summaries of

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Reservoirs

*technical terms, many
case studies,*

guidelines for the

determination and

evaluation of

microfacies criteria,

for enclosed CD with

14000 references, self-

testing exercises for

recognition and

characterization

skills, and more

We are poised to

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Reservoirs

*embark on a new era
of discovery in the*

study of

geomorphology. The

discipline has a long

and illustrious

history, but in recent

years an entirely new

way of studying

landscapes and

seascapes has been

developed. It involves

the use of 3D seismic

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

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Framework

View 55

Developments In

Geomorphology

could only dream of -

view tens and

hundreds of square

kilometres of the

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

Stratigraphic
time.

This volume

demonstrates how

Earth scientists are

starting to use this

relatively new tool to

study the dynamic

evolution of a range

of sedimentary

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Reservoirs

environments.

*Three economically
important case*

histories serve as

illustrations of the

integration of

analyses of

depositional

environments,

sequence

stratigraphic

architecture, and

porosity evolution

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Reservoirs

during diagenesis, as

a means of

maximizing

effectiveness of

reservoir production

and/or modelling: (1)

the Paleozoic

Madison Formation

of central Wyoming,

(2) the Upper

Jurassic Smackover

Formation of the

central Gulf of

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Reservoirs

*Mexico, and (3) the
Tertiary Malampaya
buildup, offshore*

*Philippines. The three
embody a broad*

range of geologic

contexts (e.g.,

icehouse versus

greenhouse during

deposition) and

different approaches

for optimizing

development

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Reservoirs

programs (e.g., use of surface analogs, 3D seismically based reservoir modelling).

High drilling costs during development of the deep (23,000ft.)

Madden Field in the Wyoming Madison Formation (due to high temperature, pressure, and H₂S content of the gas)

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Reservoirs

*mandated high
efficiency during
development.*

Meticulous

*evaluation of a
surface outcrop*

analog and

maximized collection

*of analog data were
the primary means of
assuring optimal
reservoir*

development. The

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

Stratigraphic

Framework

Development In

Sedimentology

Stratigraphic

interpretation.

Previously overlooked

lowstand siliciclastic

sequence

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Reservoirs

slope fans become geographically and

stratigraphically

predictable reservoir

targets when

understood in their

proper sequence

stratigraphic

framework. The 3D

seismic grid over the

drowned isolated

Oligocene–Miocene

Malampaya platform,

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Reservoirs

*offshore Philippines,
is integrated with*

geologic and

petrophysical data

from sparse well

control and field-wide

depositional and

diagenetic models in

order to develop a

reservoir simulation

model of the

reservoir.

This revised edition of

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Reservoirs

the bestselling

Practice of Reservoir

Engineering has been

written for those in

the oil industry

requiring a working

knowledge of how the

complex subject of

hydrocarbon

reservoir engineering

can be applied in the

field in a practical

manner. Containing

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Reservoirs

additions and

corrections to the first

edition, the book is a

simple statement of

how to do the job and

is particularly

suitable for

reservoir/production

engineers as well as

those associated with

hydrocarbon

recovery. This

practical book

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Reservoirs

*approaches the basic
limitations of*

reservoir engineering

with the basic tenet of

science: Occam's

Razor, which applies

to reservoir

engineering to a

greater extent than

for most physical

sciences - if there are

two ways to account

for a physical

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Reservoirs

phenomenon, it is the simpler that is the more useful.

Therefore, simplicity is the theme of this volume. Reservoir and production

engineers, geoscientists, petrophysicists, and those involved in the management of oil and gas fields will

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Reservoirs

want this edition.

Porosity Evolution

Applications in

Subsurface Energy

and Environmental

Problems

Aquifer

Characterization

Techniques

Carbonate Reservoir

Characterization: A

Geologic-

Engineering Analysis

Petroleum

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Reservoirs

Geoscience

Origin of Carbonate

Sedimentary Rocks

Chapter 8. Meteoric

Diagenetic

Environment

This book presents

selected articles

from the workshop

on "Challenges in

Petrophysical

Evaluation and Rock

Physics Modeling of

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Reservoirs

**Carbonate
Reservoirs" held at**

IIT Bombay in A

November 2017. The

articles included

explore the

challenges

associated with

using well-log data,

core data analysis,

and their integration

in the qualitative

and quantitative

assessment of

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Reservoirs

*petrophysical and
elastic properties in*

carbonate

reservoirs. The book

also discusses the

recent trends and

advances in the area

of research and

development of

carbonate reservoir

characterization,

both in industry and

academia. Further, it

addresses the

File Type PDF

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Reservoirs

*challenging concept
of porosity*

portioning, which

has huge

implications for

exploration and

development

success in these

complex reservoirs,

enabling readers to

understand the

varying orders of

deposition and

diagenesis and also

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Reservoirs

*to model the flow
and elastic*

Porosity Evolution

Diagenesis In A

Sequence

Stratigraphic

Framework

in the marine

diagenetic realm are

(1) cementation in

shallow warm

waters, (2)

dolomitization

accompanied by

minor porosity

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Reservoirs

Porosity Evolution

Progress in

Sequence Stratigraphy

Stratigraphic

Framework

Volume 55

Developments in

Sedimentology

In shallow, normal

marine

environments,

porosity is lost

through abiotic and

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Porosity Evolution

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Framework

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Developments In

Sedimentology

***Abiotic and
microbial***

cementation in

reefs—in

combination with

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Framework

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Developments In

Sedimentology

cements tend to be

vertically and

laterally restricted,

these zones can act

as permeability

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Reservoirs

**barriers in
reservoirs. Deep**

marine slope and

basin environments

can experience

significant porosity

modification.

Aragonite

cementation on the

upper slope extends

to 60m depth at

present. During the

Paleozoic and

Mesozoic eras,

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Reservoirs

**carbonate mud
mounds developed**

on upper shelf

slopes and distal

ramps. Microbial

processes in these

mounds contributed

to both early

cementation and

dissolution. Many

such mounds

formed in

conjunction with

hydrothermal and

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Reservoirs

Porosity Evolution

Diagenesis &

Sequence

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Developments In

Stratigraphy

Carbonate platform

margins that front

oceanic basins,

dissolution of

aragonite and/or

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Reservoirs

*calcite, precipitation
of radial calcite*

cement, and In A

dolomitization can

occur. Kohout

thermal convection

and mixing-zone-

induced seawater

circulation are the

most likely

hydrologic pumps

driving large

volumes of marine

water through steep

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Reservoirs

platform margins. At relatively shallow

depths in the

sediment/rock

column,

decomposition of organic matter

mediated by sulfate-reducing bacteria

can promote

dissolution of

aragonite and Mg-

calcite, calcite

cementation, and

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Reservoirs

massive

dolomitization.

This textbook

provides an

overview of the

origin and

preservation of

carbonate

sedimentary rocks.

The focus is on

limestones and

dolostones and the

sediments from

which they are

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Reservoirs

derived. The approach is general

and universal and

draws heavily on

fundamental

discoveries,

arresting

interpretations, and

keystone syntheses

that have been

developed over the

last five decades.

The book is

designed as a

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Reservoirs

teaching tool for

upper level

undergraduate

classes, a

fundamental

reference for

graduate and

research students,

and a scholarly

source of

information for

practicing

professionals whose

expertise lies

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Reservoirs

outside this

specialty. The

approach is

rigorous, with every

chapter being

designed as a

separate lecture on

a specific topic that

is encased within a

larger scheme. The

text is profusely

illustrated with all

colour diagrams and

images of rocks,

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Reservoirs

*subsurface cores,
thin sections,*

modern sediments,

and underwater

seascapes.

Additional

resources for this

book can be found

at: [www.wiley.com/go](http://www.wiley.com/go/james/carbonaterocks)

o/james/carbonatero

cks

Selected papers and

abstracts of the

symposium held

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Reservoirs

**August 6 through 9,
2011, Billings,**

Montana

The Identification,

Description and

Characterization of

Hydrocarbon

Reservoirs in

Carbonate Rocks

The Circum-Gulf of

Mexico and the

Caribbean

Chapter 7.

Evaporative Marine

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**Diagenetic
Environment**

Sediment

Compaction and

Applications in

Petroleum

Geoscience

Reactive Transport

Modeling

Linking Diagenesis

to Sequence

Stratigraphy

Modern seismic data
have become an

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Diagenesis in A

Sequence

impressive detail.

Whilst driven

primarily by oil and

gas exploration and

development, data

sharing and

collaboration are

delivering

fundamental geological

knowledge on

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Developments In

Sedimentology

oceanographic or

tectonic factors.

Quantitative

interrogation of

modern seismic

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Porosity Evolution

Dipense In A

Sequence

depositional and

diagenetic processes to

be imaged and

extrapolated between

wells. This volume

reviews the variety of

carbonate platform

and reservoir

characteristics that

can be interpreted

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Sequence

Geophysical and

Carbonate Geological

Experts at all stages of

a seismic campaign.

Papers cover

Carbonate Exploration,

including the uniquely

challenging South

Atlantic pre-salt

reservoirs, seismic

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Reservoirs

modelling of
Porosity Evolution
carbonates, and

Diagnostic In A
Sequence
seismic indicators of
fluid flow and

diagenesis.

Stratigraphic
Framework
Elements of Petroleum
Geology, Fourth

Volume 55
Developments In
Edition is a useful
primer for

Sedimentology
geophysicists,

geologists and

petroleum engineers in
the oil industry who

wish to expand their

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Volume 55

Developments In

Sedimentology

knowledge beyond their specialized area. It is also an excellent introductory text for a university course in petroleum geoscience. This updated edition includes new case studies on non-conventional exploration, including tight oil and shale gas exploration, as well as coverage of the

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impacts on petroleum geology on the environment. Sections on shale reservoirs, flow units and containers, IOR and EOR, giant petroleum provinces, halo reservoirs, and resource estimation methods are also expanded. Written by a preeminent petroleum geologist

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Reservoirs

and sedimentologist
with decades of

petroleum exploration

in remote corners of

the world Covers

information pertinent

to everyone working in

the oil and gas

industry, especially

geophysicists,

geologists and

petroleum reservoir

engineers Fully revised

with updated

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Carbonate

Reservoirs

references and
expanded coverage of
topics and new case

studies

Sequence

Diagenesis of
carbonates and clastic
sediments encompasses

the biochemical,
mechanical, and

chemical changes that
occur in sediments

subsequent to
deposition and prior to
low-grade

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Reservoirs

Porosity Evolution

Diagenesis In A

Source

carbonates and clastic

sediments include

primary composition

of the sediments,

depositional facies,

pore water chemistry,

burial-thermal and

tectonic evolution of

the basin, and paleo-

climatic conditions.

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

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Framework

Volume 35

Developments In

Sedimentology

Diagenetic processes involve widespread chemical, mineralogical, and isotopic modifications affected by the original mineralogy of carbonate and clastic sediments. These diagenetic alterations will impose a major control on porosity and permeability and hence on hydrocarbon

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Porosity Evolution

Diagenesis In A

Sequence

important economic

minerals. In this

Special Issue, we have

submissions focusing

on understanding the

interplay between the

mineralogical and

chemical changes in

carbonates and clastic

sediments and the

diagenetic processes,

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Sedimentology

fluid flow, tectonics,

and mineral reactions

at variable scales and

environments from a

variety of sedimentary

basins. Quantitative

analyses of diagenetic

reactions in these

sediments using a

variety of techniques

are essential for

understanding the

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Reservoirs

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Reservoirs

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Porosity Evolution

Carbonate Diagenesis

and Porosity

Evolution of Karst

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and Way Forward

Petro-physics and

Rock Physics of

Carbonate Reservoirs

Applications to

Hydrocarbon

Exploration and

Production

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Reservoirs

Microfacies of
Carbonate Rocks

Porosity Evolution

Diagenesis In A

Reservoir
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techniques in

both

sandstones

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Sedimentology

**Sandstone and
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benefit from
the study of
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analogues and
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but modelling
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are currently**

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Reservoirs

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There are

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Reservoirs

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This collection

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Reservoirs

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Developments In

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Developments In

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**This book
integrates
those critical
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aspects of
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with**

**engineering
aspects of
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Reservoirs

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The three

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Reservoirs

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discussed are:

- **the geometry of carbonate reservoirs and relationship to original depositional facies distributions • the origin and**

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The intention

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Reservoirs

**geologists and
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Reservoirs

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Reservoirs

**geology and
engineering**

**courses at the
advanced**

**undergraduate
and graduate**

levels.

This book is

both a review

and a look to

the future,

highlighting

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Framework

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Developments In

Sedimentology

**challenges for
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diagenesis on
reservoir
rocks.**

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Reservoirs

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Reservoirs

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An accessible

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Reservoirs

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Chemical,
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and Isotopic

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**Heterogeneity
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**Chapter 4. The
Nature and
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Porosity**

**Cenozoic
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Systems of**

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Reservoirs

Australasia

The 2nd Edition
of Carbonate

Reservoirs aims
to educate

graduate

students and

industry

professionals

on the

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This book

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and Ordovician

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and Rospo Mare

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Chapter 6.

Marine

Diagenetic

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A Geological

Compendium

*This comprehensive
textbook presents an
overview of petroleum
geoscience for geologists*

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Reservoirs

active in the petroleum industry, while also

offering a useful guide

for students interested in

environmental geology,

engineering geology and

other aspects of

sedimentary geology. In

this second edition, new

chapters have been

added and others

expanded, covering

geophysical methods in

general and

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Reservoirs

electromagnetic

exploration methods in

particular, as well as

reservoir modeling and

production,

unconventional resources

and practical petroleum

exploration.

Petroleum geoscience

comprises those

geoscientific disciplines

which are of greatest

significance for the

exploration and recovery

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Reservoirs

of oil and gas. These

include petroleum

geology, of which

sedimentary geology is

the main foundation

along with the contextual

and modifying principles

of regional, tectonic and

structural geology.

Additionally,

biostratigraphy and

micropalaeontology,

organic geochemistry,

and geophysical

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Reservoirs

exploration and

production techniques are

all important tools for

petroleum geoscientists in

the 21st century. This

comprehensive textbook

present an overview of

petroleum geoscience for

geologists destined for

the petroleum industry. It

should also be useful for

students interested in

environmental geology,

engineering geology and

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Reservoirs

*other aspects of
sedimentary geology*

The porosity of

carbonates as compared

to sandstones is vastly

more complex with

simple intergrain porosity

dominates sandstones

while carbonates

commonly exhibit

complex secondary pore

systems that may evolve

during burial. Initial

porosity of carbonates is

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Developments In

Sedimentology

pore systems in

carbonates. The

geologically based

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carbonate porosity

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Reservoirs

classification is the most commonly used scheme.

Their 15 different pore types are based on fabric selectivity. A major

feature of the classification is its recognition of the potential of porosity

evolution through time and burial. Three porosity development zones are recognized:

eogenetic, dealing with

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Reservoirs

surface processes;

mesogenetic, dealing with

burial processes; and

telogenetic, exhumed

rocks dealing again with

surface processes. This

classification is best used

during exploration, while

other engineering-based

classifications such as the

one developed by Lucia

should be used in

reservoir

characterization and as

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Reservoirs

input for reservoir porosity evolution modeling. Examples of all 15 pore types are given.

This book discusses how sediments compact with depth and applications of the compaction trends.

Porosity reduction in sediment conveniently indicates the degree of sediments compacted after deposition.

Published empirical

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Carbonate

Reservoirs

*curves- the compaction
curves- are depth-wise*

porosity variation

through which change in

pore spaces from

sediment surface to

deeper depths e.g. up to 6

km can be delineated.

Porosity is derived from

well logs. Compaction

curves, referred to as the

Normal Porosity Profile

of shales, sandstones and

shale bearing sandstones

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Developments In

Sedimentology

of different models are

reviewed along with the

different mechanical and

chemical compaction

processes. These

compaction models

reveals how porosity

reduces depth-wise and

the probable reason for

anomalous zones.

Deviation from these

normal compaction

trends may indicate

abnormal pressure

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Reservoirs

scenarios: either over- or under pressure. We

highlight global examples of abnormal pressure

scenarios along with the different primary- and secondary mechanisms.

Well logs and cores being the direct measurements of porosity, well log is

the only cost-effective way to determine

porosity of subsurface rocks. Certain well logs

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Reservoirs

can detect overpressure

and the preference of

one log above the other

helps reduce the

uncertainty. Apart from

delineation of under-

compacted zones by

comparing the modeled-

with the actual

compaction, porosity

data can also estimate

erosion.

Evaporites

Reservoir Quality of

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Reservoirs

*Clastic and Carbonate
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Rocks*

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*Overcoming the
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*Carbonate Reservoir
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Rocks*

Developments In
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A comprehensive
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Reservoirs

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major porosity

Developments In

modification and

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enhancement.

Each model refers

to a specific

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Carbonate

Reservoirs

setting (carbonate
ramp, land-tied

shelf, or isolated

platform), (2)

climatic regime

(humid or arid),

and (3) sea-level

cycle phase (TST,

HST, or LST).

Diagenetic

processes at the

parasequence

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Reservoirs

Porosity Evolution

Diagenesis In A

Sequence

Stratigraphic

Framework

Volume 55

Developments In

Sedimentology

scale reflect third-order sea-level cycles. During the TST and early HST, parasequences tend to be thick, with marine diagenesis dominating.

Parasequences progressively thin during the HST,

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Sedimentology

with exposure at cycle tops and meteoric influence becoming more important. During the late HST and the LST, subaerial diagenesis dominates. Third-order sedimentary sequences exhibit stacking

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Reservoirs

geometries that
reflect

Porosity Evolution

Diagenesis In A

background

Sequence

second-order sea-
level trends.

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sequence sets

Developments In

develop during

Sedimentology

second-order sea-
level rise (e.g., in

rift or foreland

basins). Such

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Reservoirs

sequence sets

Porosity Evolution

show relative

Diagenesis In A

domination by

Sequence

marine

Stratigraphic

diagenesis.

Framework

Aggradational

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sequence sets

Developments In

develop during

Sedimentology

second-order sea-

level stillstand to

moderate rise

(e.g., early post-

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Reservoirs

rift phase in

Porosity Evolution

extensional

Diagenesis In A

basins). Moderate

Sequence

meteoric water

Stratigraphic

diagenesis and

Framework

porosity

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modification

Developments In

occur at sequence

Sedimentology

boundaries,

followed by burial

diagenesis.

Progradational

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Reservoirs

sequence sets

Porosity Evolution

develop on

Diagenesis In A

passive margins

Sequence

during second-

Stratigraphic

order sea-level

Framework

stillstand to fall.

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This setting

Developments In

supports deep,

Sedimentology

amalgamated

karstification,

extensive phreatic

meteoric

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Reservoirs

diagenesis,
and—under arid
conditions—reflux
dolomitization.

First-order

Icehouse

conditions are
characterized by
high-frequency,
high-amplitude
sea-level cycles
that favor

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Reservoirs

development of
Porosity Evolution

rimmed carbonate
Diagenesis In A
shelves. The

Sequence
mainly aragonitic
Stratigraphic
sediments

Framework
deposited on

Volume 55
these aggraded
Developments In
shelves

Sedimentology
experience high

degrees of

meteoric

diagenesis and

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Reservoirs

porosity

modification.

Porosity Evolution

Diagenesis In A

Greenhouse

Sequence

conditions are

Stratigraphic

characterized by

Framework

lower-frequency,

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low-amplitude sea-

Developments In

level cycles that

Sedimentology

favor

development of

carbonate ramps.

The calcite

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sediments

Porosity Evolution

deposited here

Diagenesis In A

result in relatively

Sequence

muted meteoric

Stratigraphic

diagenesis and

Framework

porosity

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modifications.

Developments In

Two case histories

Sedimentology

illustrate the basic

concepts of early

diagenetic

porosity

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Reservoirs

evolution: (1) the

Porosity Evolution

Southwest

Diagenesis In A

Andrews Area, an

Sequence

Icehouse Permian

Stratigraphic

–Pennsylvanian

Framework

rimmed shelf

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margin reservoir

Developments In

(Permian, West

Sedimentology

Texas), and (2)

ramp sequences

of the Kwanza and

Lower Congo

Lower Congo

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Reservoirs

basins,

Greenhouse

Albian Pinda

Group

(Cretaceous,

offshore Angola).

"AAPG Memoir 79,

The Circum-Gulf of

Mexico and the

Caribbean, is the

first volume in

more than a

File Type PDF

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Reservoirs

decade to

Porosity Evolution

document such a

Diagenesis In A

wide range of

Sequence

research on the

Stratigraphic

geology of this

Framework

vast area. Of the

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total 44 papers,

Developments In

roughly two-

Sedimentology

thirds pertain to

the Gulf of Mexico,

with an emphasis

on the Mexican

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Reservoirs

portion of the
basin, and to the
petroliferous areas
of the southern
Caribbean,
including
Colombia,
Venezuela, Cuba,
and Trinidad and
Tobago. The

remaining papers
relate to the

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Reservoirs

Antilles and

Central America,

as well as a series

of papers that

address region-

wide topics such

as plate tectonic

evolution. A

significant

number of papers

were contributed

by authors from

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Reservoirs

national oil
companies and
universities from
within the region."

--AAPG.

Teaches the
application of
Reactive Transport
Modeling (RTM)
for subsurface
systems in order
to expedite the

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Reservoirs

understanding of
the behavior of

complex
geological

systems This book
lays out the basic

principles and
approaches of

Reactive Transport
Modeling (RTM)

for surface and

subsurface

subsurface

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Reservoirs

environments,

Porosity Evolution

presenting

Diagenesis In A

specific workflows

Sequence

and applications.

Stratigraphic

The techniques

Framework

discussed are

Volume 55

being increasingly

Developments In

commonly used in

Sedimentology

a wide range of

research fields,

and the

information

information

File Type PDF

Carbonate

Reservoirs

provided covers

Porosity Evolution

fundamental

Diagenesis In A

theory, practical

Sequence

issues in running

Stratigraphic

reactive transport

Framework

models, and how

Volume 55

to apply

Developments In

techniques in

Sedimentology

specific areas. The

need for RTM in

engineered

facilities, such as

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Reservoirs

nuclear waste

Porosity Evolution

repositories or

Diagenesis In A

CO₂ storage sites,

Sequence

is ever increasing,

Stratigraphic

because the

Framework

prediction of the

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future evolution

Developments In

of these systems

Sedimentology

has become a

legal obligation.

With increasing

recognition of the

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Reservoirs

power of these
Porosity Evolution

approaches, and

Diagenesis In A

their widening

Sequence

adoption, comes

Stratigraphic

responsibility to

Framework

ensure

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appropriate

Developments In

application of

Sedimentology

available tools.

This book aims to

provide the

requisite

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Reservoirs

understanding of
key aspects of

RTM, and in doing
so help identify

and thus avoid

potential pitfalls.

Reactive Transport

Modeling covers:

the application of

RTM for CO₂

sequestration and

geothermal

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Reservoirs

energy

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development;

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reservoir quality

Sequence

prediction;

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modeling

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diagenesis;

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modeling

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geochemical

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processes in oil &

gas production;

modeling gas

hydrate

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production;

Porosity Evolution

reactive transport

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in fractured and

Sequence

porous media;

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waste disposal;

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reactive flow

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modeling in

hydrothermal

systems; and

modeling

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biogeochemical
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processes. Key

Diagenesis In A
features include: A

Sequence
comprehensive

Stratigraphic
reference for

Framework
scientists and

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practitioners

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entering the area

Sedimentology
of reactive

transport

modeling (RTM)

Presented by

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Reservoirs

internationally
known experts in

the field Covers
fundamental

theory, practical
issues in running

reactive transport
models, and

hands-on
examples for

applying
techniques in

techniques in

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Reservoirs

specific areas

Porosity Evolution

Teaches readers to

Diagenesis In A

appreciate the

Sequence

power of RTM and

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to stimulate usage

Framework

and application

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Reactive Transport

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Modeling is

Sedimentology

written for

graduate students

and researchers in

academia,

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government

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laboratories, and

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industry who are

Sequence

interested in

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applying reactive

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transport

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modeling to the

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topic of their

Sedimentology

research. The

book will also

appeal to

geochemists,

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hydrogeologists,
Porosity Evolution

geophysicists,

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earth scientists,

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environmental

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engineers, and

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environmental

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chemists.

Developments In

Two marine

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evaporative

settings are

presented in

detail: the sabkha

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evaporative

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lagoon/salina. In

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each, diagenetic

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pathways affect

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in associated

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marine carbonate

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sequences, with

common

dolomitization

being a principal

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factor.

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Dolomitization is

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favored where

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hypersaline

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waters possess

Framework

high Mg/Ca ratios

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(postprecipitation

Developments In

of Ca-bearing

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evaporites) and

potential for

hydrologic drive

(high fluid

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densities). Surficial

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dolomites in

Diagenesis In A

modern

Sequence

environments are

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poorly ordered “

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protodolomites” .

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Modern marginal

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diagenetic

environments are

thin (

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rock interactions

associated with

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Porosity,

Evolution and

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Porosity Evolution

Sequence

Diagenesis In A

Stratigraphic

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Framework

Originally published

in 1989, Karst

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Geomorphology and

Developments In

Sedimentology

the leading textbook

on karst studies.

This new textbook

has been

has been

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Framework

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Developments In

Sedimentology

substantially revised and updated. The first half of the book is a systematic presentation of the dissolution kinetics, chemical equilibria and physical flow laws relating to karst environments. It includes details of the many

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Reservoirs

environmental

factors that

complicate their

chemical evolution,

with a critique of

measurement of

karst erosion rates.

The second half of

the book looks at the

classification system

for cave systems and

the influence of

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Reservoirs

climate and climatic

change on karst

development. The

book ends with

chapters on karst

water resource

management and a

look at the

important issues of

environmental

management,

including

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environmental

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impact assessment,

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environmental

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rehabilitation,

Stratigraphic
tourism impacts and

Framework
conservation values.

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Practical

Developments In
application of karst

Sedimentology
studies are explained

throughout the text.

"This new edition

strengthens the

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Diagenesis In A

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Stratigraphic

Framework

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Sedimentology

book's position as the essential reference in the field. Karst geoscientists will not dare to stray beyond arm's reach of this volume. It is certain to remain the professional standard for many decades." *Journal*

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Reservoirs
*of Cave and Karst
Studies, August
2007*
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Diagenesis In A
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