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Fourier Series,

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multiple
reflection
events in
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~~seismic~~

~~reflection data~~

~~processing 3 II.~~

~~Crosscorrelation~~

~~for vibration~~

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data (done
within the
module 2D-
dataanalysis)

If the data have
been acquired
using a vibrator
the data must be
first
crosscorrelated
with the sweep
signal before
these can be
interpreted.

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**Introduction to
the processing
of seismic
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Abstract. This
short book is
for students,
professors and
professionals
interested in
signal
processing of

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The step-by-step
demo of the full
reflection
seismic data
processing
workflow using a
complete real
seismic data set
places itself as
a very useful
feature of the
book. This is

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especially true
when students
are performing
their projects,
and when
professors and
researchers are
testing their
new developed
algorithms in
MATLAB™ for
processing
seismic data.

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Then we will
discuss the main
basic steps of a
processing
sequence,
commonly used to
obtain a seismic
image and common
to seismic data
gathered on land

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(on-shore) as
well as at sea
(off-shore): CMP
sorting,
velocity
analysis and NMO
correction,
stacking, (zero-
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migration and
time-to-depth
conversion.

Chapter 5:

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Chapter 22 - An

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Subsurface
imaging is a key
component of
basin analysis
across a range
of scales.
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**An introduction
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of Seismic
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... abstract

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The seismic reflection method is one of the main tools used by geophysicists to probe the Earth's crust and uppermost mantle. The goal

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of this course
is to provide
students with an
overview of how
seismic
reflection data
are collected
and processed to
form high-
resolution
images of the
subsurface.

Seismic

Page 27/50

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**Reflection Data:
Acquisition and
Processing ...**
Seismic data
processing
involves the
compilation,
organization,
and conversion
of wave signals
into a visual
map of the areas
below the
surface of the

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earth. The technique requires plotting points and eliminating interference. At one time, seismic processing required sending information to a distant computer lab for analysis.

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What Is Seismic Data Processing? (with picture)

Seismic
processing
basics. The
seismic data
written to tape
in the dog
house, whether
on land or at
sea, are not
ideal for

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interpretation.
To create an
accurate picture
of the
subsurface, we
must remove or
at least
minimize
artifacts in
these records
related to the
surface upon
which the survey
was performed,

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artifacts
related to the
instrumentation
and procedure
used, and noise
in the data
obscuring the
subsurface
image. Paperback

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Wiki**

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There are three main processes in seismic data processing:

deconvolution, common-midpoint (CMP) stacking and migration.

Deconvolution is a process that tries to extract the reflectivity series of the Earth, under the

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assumption that

a seismic trace

is just the

reflectivity

series of the

Earth convolved

with distorting

filters.

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Reflection

seismology -

Wikipedia

Seismic

migration is the

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Seismic by which

seismic events
Reflection Data
are

geometrically re-

located in

either space or

time to the
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event occurred

in the

subsurface

rather than the

location that it

was recorded at

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the surface,
thereby creating
a more accurate
image of the
subsurface. This
process is
necessary to
overcome the
limitations of
geophysical
methods imposed
by areas of
complex geology,
such as: faults,

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Salt bodies,
folding, etc.
Migration moves
dipping
reflectors to
their true
subsurface

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An array of
geophones or
hydrophones

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detects the
faint signals
reflected back
to the surface,
which are
recorded for
later
processing. The
raw data is very
noisy and
uninterpretable,
requiring
extensive
processing to

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1. Marine
Seismic Data
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**Seismology Data
Processing**
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Methods 1.

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Variations in
field techniques
are required
depending on

depth. 2.

Containment of
the air-blast is
essential in

shallow
reflection work.

3. Success is
greatly

increased if
shots and phones

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are near or in
the saturated
Reflection Data
zone. 4. Severe
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The processing
of other seismic

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data and many
non-seismic data
often follows
similar
principles. The
purpose of
acquiring and
processing
seismic data is
to learn
something about
the Earth's
interior.

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[Book]

This is 2D and
3D seismic
reflection data
from Utah FORGE
Phase 2c. The
readme file
containing an
explanation of
the data
including data
formats,
software that

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can be used,
processing, and
projection and
datum used. For
all 3D and 2D
data the
following
datasets were
created and
output in SEG-Y
...

**Utah FORGE:
Seismic**

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(Dataset) | DOE
Data ...**

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be trained on
the most
important
essentials of
reflection
seismics: The
theory of
seismic waves
and their
application to

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both in pre-
stack (CMP
processing,
velocity
analysis,
stacking,
migration) and
post-stack
environments.

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