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Theoretical
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Volcanic Seismology
For many
centuries
people living

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***on volcanoes
have known that
the outset of
seismic
activity is
often a
forerunner of a
volcanic
eruption. This
understanding
allowed people
living close to
the sites of***

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***the Mt. Nuovo
1538 eruption
at Campi
Flegrei, Italy,
and of the Mt.
Usu 1663
eruption, in
Hokkaido, Japan
(to quote only
two examples)
to flee before
the eruptions
started. During***

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***the second half
of the 19th
century
seismographs
were installed
on some
volcanoes, and
the link
between seismic
and eruptive
activity
started to be
assessed on a***

***firmer
scientific
basis. The
first
systematic
observations of
the
correlations
existing
between seismic
activity and
volcanic
eruptions were***

***probably those
carried out at
Mt. Vesuvius by
Luigi Palmieri
in 1856.***

***Palmieri was
the Director of
Osservatorio
Vesuviano and
built an
electromagnetic
seismograph
with the aim of***

***"making visible
the smallest
ground motions
by recording
them on paper
and indicating
direction,
intensity and
duration". He
was able to
show the
relationship
between***

*earthquakes and
the different
phases of
volcanic
activity. He
identified the
harmonic tremor
which he
indicated was a
precursor of
volcanic
activity: "the
characteristic*

*feature of the
ground motions
preceding
eruption is its
continuity . .
. (before the
eruption of
1861) the
electromagnetic
seismograph
began to show a
continuous
tremor". The*

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Palmieri

**seismograph was
also utilized
in Japan until
1883, when it
was replaced by
the new Gray-
Milne**

**seismographs,
and, later, by
the Omori in
struments.**

Theoretical

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date, state-of-the-
art reviews of the
existing literature
on lateral earth
pressure, sheet
pile walls, ultimate
bearing capacity of
shallow**

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 foundations,
 holding capacity of
 plate and helical
 anchors in sand
 and clay, and slope
 stability analysis.
 The discussion of
 the ultimate
 bearing capacity of
 shallow
 foundations is the
 most
 comprehensive
 presentation on

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**the subject to be
found anywhere,
and the review of
earth anchors is
unique to this
book. In addition,
each chapter
includes several
topics which have
never appeared in
any other book.
The treatment is
primarily
theoretical and**

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does not in any way compete with existing foundation design books. This is the only textbook of its kind. Not only will it be welcomed by teachers and first-year graduate students of geotechnical engineering, but it will be a useful

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graduate students
and consultants in
the the field, as
well as being a
valuable addition
to any civil
engineering
library.**