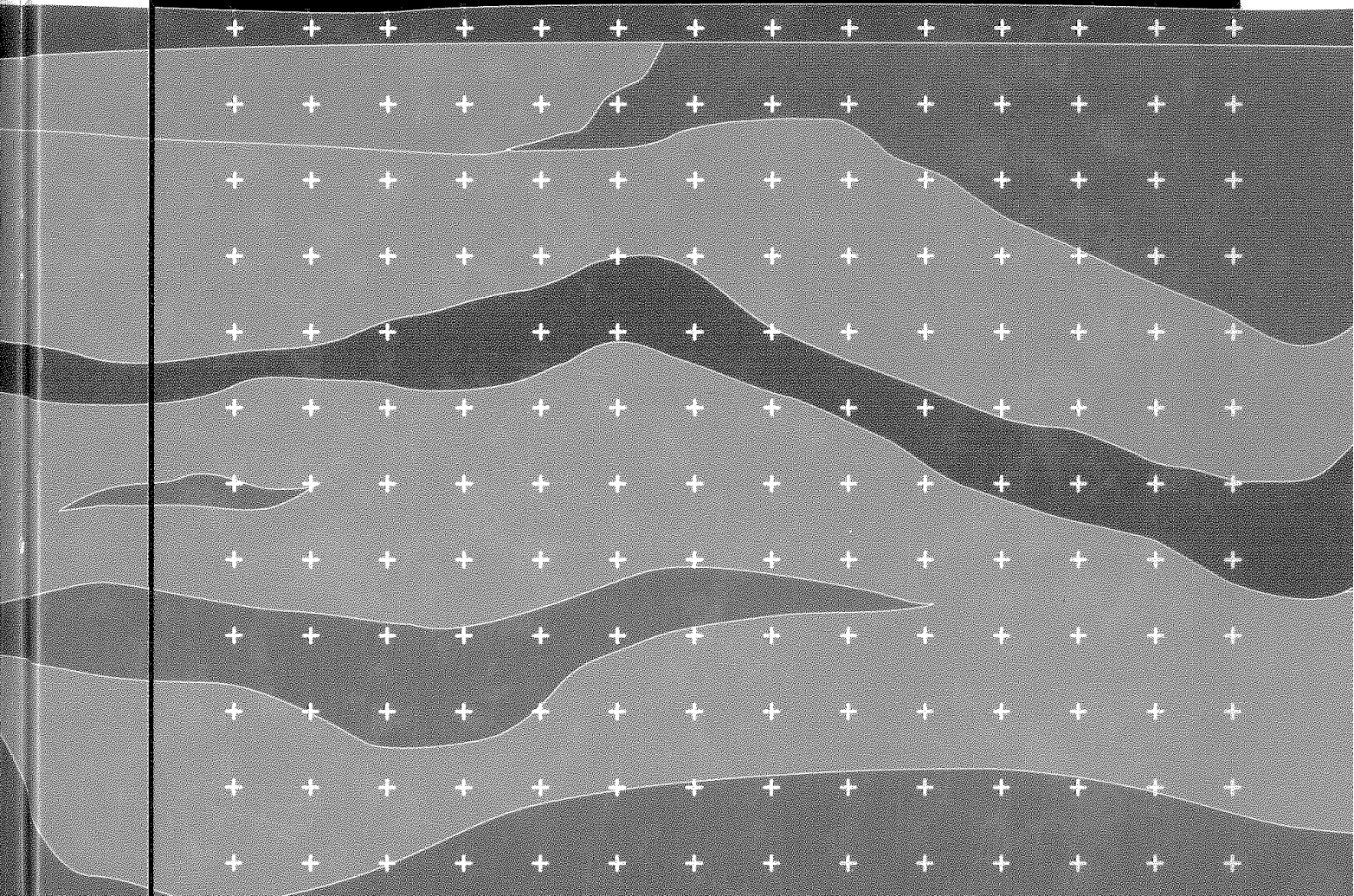


# Geotechnical and Geophysical Site Characterization

Edited by A. Viana da Fonseca & P.W. Mayne

Volume 1



Proceedings of the 2nd International Conference on Site Characterization,  
**ISC'2** Porto, Portugal, 19-22 September 2004

## Table of contents

### Volume 1

Introduction	XXI
Reviewing Committee	XXIII
Reference documents on <i>in-situ</i> testing	XXV
Acknowledgements	XXVIII

### KEYNOTE LECTURES

The James K. Mitchell Lecture: “ <i>In situ</i> soil testing: from mechanics to interpretation” <i>H-S. Yu</i>	3
Characterization of granite and the underground construction in Metro do Porto, Portugal <i>S. Babendererde, E. Hoek, P. Marinos &amp; A. Silva Cardoso</i>	39
<i>In-situ</i> test characterization of unusual geomaterials <i>F. Schnaid, B.M. Lehane &amp; M. Fahey</i>	49
Routine and advanced analysis of mechanical <i>in-situ</i> tests. Results on saprolitic soils from granites more or less mixed in Portugal <i>A. Gomes Correia, A. Viana da Fonseca &amp; M. Gambin</i>	75
The contributions of <i>in situ</i> geophysical measurements to solving geotechnical engineering problems <i>K.H. Stokoe II, S-H. Joh &amp; R.D. Woods</i>	97
Deformation properties of fine-grained soils from seismic tests <i>K.R. Massarsch</i>	133
Advanced calibration chambers for cone penetration testing in cohesionless soils <i>A-B. Huang &amp; H-H. Hsu</i>	147
<i>In-situ</i> seismic survey in characterizing engineering properties of natural ground <i>S. Shibuya, S. Yamashita, Y. Watabe &amp; D.C.F. Lo Presti</i>	167
Characterization of the Venice lagoon silts from <i>in-situ</i> tests and the performance of a test embankment <i>P. Simonini</i>	187
Characterization of soft sediments for offshore applications <i>M.F. Randolph</i>	209
Evaluating soil liquefaction and post-earthquake deformations using the CPT <i>P.K. Robertson</i>	233