

## Contents

Seismicity and seismotectonics of the Jeddah area, Saudi Arabia <i>M. S. Fnais, K. Abdelrahman, Sh. E-Hady &amp; E. Abdel-monem</i> .....	1
Historical account of monitoring North Anatolian Fault at Ismetpasa segment and latest findings <i>C. Mekik, H. Kutoğlu &amp; K. S. Gormus</i> .....	15
Prediction of earthquakes due to mantle flow and crust interaction based on the pulsating mantle hypothesis <i>H. Gholibeigian, A. Amirshahkarami &amp; F. Gholibeigian</i> .....	29
Flexible soils amplified the damage in the 2010 Haiti earthquake <i>R. O. de León</i> .....	45
Local seismic amplification analysis in the industrial area of Sulmona, Central Italy <i>A. Rinaldini, A. Grillo &amp; A. Marino</i> .....	61
Site effects in the urban area of L'Aquila damaged by the April 6, 2009 earthquake <i>P. Monaco, G. Totani, F. Totani, S. Grasso &amp; M. Maugeri</i> .....	71
Seismic wave scattering in non-homogeneous geological deposits with cracks <i>G. D. Manolis, P. S. Dineva &amp; T. V. Rangelov</i> .....	87
Seismic response of cracked soil deposits <i>F. A. Flores &amp; J. M. Mayoral</i> .....	101
A generic approach for the simulation of large earthquakes <i>B. Fälth, H. Hökmark &amp; R. Munier</i> .....	113

Role of hysteretic damping in seismic response of the ground under large earthquakes <i>N. Yoshida</i> .....	125
Dynamic poroelastic soil pressures on a pair of rigid retaining walls experiencing base rotation <i>D. D. Theodorakopoulos &amp; D. E. Beskos</i> .....	139
A study of earthquake-caused liquefaction: the case of Urayasu City <i>S. Kamao, M. Takezawa, K. Yamada, S. Jinno, T. Shinoda &amp; E. Fukazawa</i> .....	149
Site effects and soil liquefaction of the sandy soil in Catania harbour <i>M. Maugeri &amp; S. Grasso</i> .....	163
Liquefaction potential evaluation for a site <i>S. Mittal &amp; M. K. Gupta</i> .....	179
Evaluation of the liquefaction potential of soil deposits based on SPT and CPT test results <i>A. M. Hanna, D. Ural &amp; G. Saygili</i> .....	191
Settlements and pore pressure generation in sand during earthquakes – physical phenomena and their 1-D description <i>A. Niemunis, T. Wichtmann &amp; Th. Triantafyllidis</i> .....	201
Dynamic response of a large landslide during a strong earthquake <i>R. Meriggi &amp; M. Del Fabbro</i> .....	211
Shaking table tests on shallow foundations <i>J. Estaire &amp; V. Cuéllar</i> .....	221
A refined formula for the allowable bearing pressure in soils and rocks using shear wave velocities <i>S. S. Tezcan &amp; Z. Ozdemir</i> .....	233
<b>Author index</b> .....	249