Record Nr. UNINA9910156337703321 Computational Methods in Earthquake Engineering: Volume 3 / / **Titolo** edited by Manolis Papadrakakis, Vagelis Plevris, Nikos D. Lagaros Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2017 Edizione [1st ed. 2017.] Descrizione fisica 1 online resource (X, 418 p. 182 illus.) Computational Methods in Applied Sciences, , 2543-0203; ; 44 Collana Disciplina 624.1762 Soggetti Civil engineering Mathematics - Data processing Geotechnical engineering Civil Engineering Computational Science and Engineering Geotechnical Engineering and Applied Earth Sciences Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters. Nota di contenuto Preface -- 1. Numerical Modeling Aspects of Buried Pipeline – Fault Crossing, by Vasileios E. Melissianos and Charis J. Gantes -- 2. Determination of the parameters of the directivity pulse embedded in near-fault ground motions and its effect on structural response, by Petros Mimoglou, Ioannis N. Psycharis and Ioannis M. Taflampas -- 3. Numerical Simulation of Liquid Sloshing in Tanks, by Zuhal Ozdemir, Yasin M. Fahjan and Mhamed Souli -- 4. Seismic Analysis of Structural Systems Subjected to Fully Non-Stationary Artificial Accelerograms, by Giuseppe Muscolino and Tiziana Alderucci -- 5. Elastic and Inelastic Analyses of Frames with a Force-based Higher-order 3D Beam Element Accounting for Axial-flexural-shear-torsional Interaction, by João P. Almeida, António A. Correia, and Rui Pinho -- 6. Improved Method for the Calculation of Plastic Rotation of Moment-Resisting Framed

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Sommario/riassunto

This is the third book in a series on Computational Methods in Earthquake Engineering. The purpose of this volume is to bring together the scientific communities of Computational Mechanics and Structural Dynamics, offering a wide coverage of timely issues on contemporary Earthquake Engineering. This volume will facilitate the exchange of ideas in topics of mutual interest and can serve as a platform for establishing links between research groups with complementary activities. The computational aspects are emphasized in order to address difficult engineering problems of great social and economic importance.