

Contents

Construction Systems	1
Alice Tavares, Dina D’Ayala, Aníbal Costa and Humberto Varum	
Structural Behaviour and Retrofitting of Adobe Masonry Buildings	37
Humberto Varum, Nicola Tarque, Dora Silveira, Guido Camata, Bruno Lobo, Marcial Blondet, António Figueiredo, Muhammad Masood Rafi, Cristina Oliveira and Aníbal Costa	
Conservation and New Construction Solutions in Rammed Earth	77
Rui A. Silva, Paul Jaquin, Daniel V. Oliveira, Tiago F. Miranda, Luc Schueremans and Nuno Cristelo	
Characterization and Damage of Brick Masonry	109
Paulo B. Lourenço, Rob van Hees, Francisco Fernandes and Barbara Lubelli	
Characterization and Reinforcement of Stone Masonry Walls	131
Bruno Quelhas, Lorenzo Cantini, João Miranda Guedes, Francesca da Porto and Celeste Almeida	
Save the <i>Tabique</i> Construction	157
Jorge Pinto, Gülten Gülay, José Vieira, Vatan Meltem, Humberto Varum, İhsan Engin Bal and Aníbal Costa	
Pombalino Constructions: Description and Seismic Assessment	187
Mário Lopes, Helena Meireles, Serena Cattari, Rita Bento and Sergio Lagomarsino	
Analysis and Strengthening of Timber Floors and Roofs	235
Jorge M. Branco and Roberto Tomasi	
Advancements in Retrofitting Reinforced Concrete Structures by the Use of CFRP Materials	259
José Sena-Cruz, Joaquim Barros, Mário Coelho and Carlo Pellegrino	

**Numerical Modelling Approaches for Existing Masonry
and RC Structures** 285
Alexandre A. Costa, Bruno Quelhas and João P. Almeida

**Seismic Vulnerability and Risk Assessment
of Historic Masonry Buildings.** 307
Romeu Vicente, Dina D’Ayala, Tiago Miguel Ferreira,
Humberto Varum, Aníbal Costa, J. A. R. Mendes da Silva
and Sergio Lagomarsino

<http://www.springer.com/978-3-642-39685-4>

Structural Rehabilitation of Old Buildings

Costa, A.; Guedes, J.M.; Varum, H. (Eds.)

2014, VIII, 348 p. 224 illus., 147 illus. in color.,

Hardcover

ISBN: 978-3-642-39685-4