

Innovative Approaches to Earthquake Engineering

Edited by

G. Oliveto

University of Catania, Italy



Contents

Preface	xi
Chapter One Innovative approaches to earthquake engineering <i>V.V. Bertero</i>	1
Chapter Two Design of damage-controlled structures <i>Y. Huang, A. Wada, M. Iwata, S.A. Mahin & J.J. Connor</i>	85
Chapter Three Seismic resistance and vulnerability of reinforced concrete buildings not designed for earthquake action. <i>G. Oliveto, I. Calio & M. Marletta</i>	119
Chapter Four Vulnerability of historical and monumental buildings: significant ground motion parameters and evaluation of seismic performance <i>V.Petrini & S. Casolo</i>	203
Chapter Five Structural and seismological implications of the 1997 seismic sequence in Umbria and Marche, Italy. <i>L. Decanini, F. Mollaioli & G. Oliveto</i>	229