THE SEISMIC DESIGN HANDBOOK

Second Edition

Farzad Naeim









Seismic Design Handbook

James L. Stratta

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The Seismic Design Handbook Farzad Naeim, 1989-08-31 The Seismic Design Handbook, 2E Naeim Seismic design handbook F. Naeim, Manual of Seismic Design James L. Stratta, 1987 Farzad, 2008-02-01 Seismic Design Manual, 3rd Edition, 2018-07 **SEAOC Blue Book** ,2009 This SEAOC Blue Book Seismic Design Recommendations is the premier publication of the SEAOC Seismology Committee The name Blue Book is renowned worldwide among engineers researchers and building officials Since 1959 the SEAOC Blue Book previously titled Recommended Lateral Force Requirements and Commentary has been a prescient publication of earthquake engineering The Blue Book has been at the vanguard of earthquake engineering in California and around the world This edition of the Blue Books offers a series of articles that cover specific topics some related to a particular code provision and some more general relating to an area of practice While different than the previous editions of the Blue Books it builds upon the tremendous effort of those who have forged earthquake engineering practice via the previous half century of Blue Book editions The Blue Book provides insight and discussion of earthquake engineering concepts interpretations of sometimes ambiguous or conflicting provisions of various codes standards and guidelines and practical guidance on design implementation 2000 Seismic Design Manual, 2nd Ed American Institute of Steel IBC Structural/seismic Design Manual ,2001 Construction, Structural Steel Educational Council, 2012-09 Displacement-based Seismic Design of Structures M. J. N. Priestley, Gian Michele Calvi, Mervyn J. Kowalsky, 2007 Displacement Based Seismic Design of Structures is a book primarily directed towards practicing structural designers who are interested in applying performance based concepts to seismic design Since much of the material presented in the book has not been published elsewhere it will also be of considerable interest to researchers and to graduate and upper level undergraduate students of earthquake engineering who wish to develop a deeper understanding of how design can be used to control seismic response The design philosophy is based on determination of the optimum structural strength to achieve a given performance limit state related to a defined level of damage under a specified level of seismic intensity Emphasis is also placed on how this strength is distributed through the structure This takes two forms methods of structural analysis and capacity design It is shown that equilibrium considerations frequently lead to a more advantageous distribution of strength than that resulting from stiffness considerations Capacity design considerations have been re examined and new and more realistic design approaches are presented to insure against undesirable modes of inelastic deformation. The book considers a wide range of structural types including separate chapters on frame buildings wall buildings dual wall frame buildings masonry buildings timber structures bridges structures with isolation or added damping devices and wharves These are preceded by introductory chapters discussing conceptual problems with current force based design seismic input for displacement based design fundamentals of direct displacement based design and analytical tools appropriate for displacement based design The final two chapters adapt the principles of

displacement based seismic design to assessment of existing structures and present the previously developed design information in the form of a draft building code The text is illustrated by copious worked design examples 39 in all and analysis aids are provided in the form of a CD containing three computer programs covering moment curvature analysis Cumbia linear element based inelastic time history analysis Ruaumoko and a general fibre element dynamic analysis program SeismoStruct The design procedure developed in this book is based on a secant stiffness rather than initial stiffness representation of structural response using a level of damping equivalent to the combined effects of elastic and hysteretic damping The approach has been fully verified by extensive inelastic time history analyses which are extensively reported in the text The design method is extremely simple to apply and very successful in providing dependable and predictable seismic response Authors Bios M J N Priestley Nigel Priestley is Professor Emeritus of the University of California San Diego and co Director of the Centre of Research and Graduate Studies in Earthquake Engineering and Engineering Seismology ROSE School Istituto Universitario di Studi Superiori IUSS Pavia Italy He has published more than 450 papers mainly on earthquake engineering and received numerous awards for his research He holds honorary doctorates from ETH Zurich and Cujo Argentina He is co author of two previous seismic design books Seismic Design of Concrete and Masonry Buildings and Seismic Design and Retrofit of Bridges that are considered standard texts on the subjects G M Calvi Michele Calvi is Professor of the University of Pavia and Director of the Centre of Research and Graduate Studies in Earthquake Engineering and Engineering Seismology ROSE School Istituto Universitario di Studi Superiori IUSS of Pavia He has published more than 200 papers and is co author of the book Seismic Design and Retrofit of Bridges that is considered a standard text on the subject has been involved in important construction projects worldwide such as the Rion Bridge in Greece and the upgrading of the Bolu Viaduct in Turkey and is coordinating several international research projects M.J. Kowalsky Mervyn Kowalsky is Associate Professor of Structural Engineering in the Department of Civil Construction and Environmental Engineering at North Carolina State University and a member of the faculty of the ROSE School His research which has largely focused on the seismic behaviour of structures has been supported by the National Science Foundation the North Carolina and Alaska Departments of Transportation and several industrial organizations He is a registered Professional Engineer in North Carolina and an active member of several national and international committees on Performance Based Seismic Design

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collection provides detailed information on bridge engineering and thoroughly explains the concepts and practical applications surrounding the subject and also highlights bridges from around the world This second edition of the bestselling Bridge Engineering Handbook covers virtually all the information an engineer would need to know about any type of bridge from planning to construction to maintenance It contains more than 2 500 tables charts and illustrations in a practical ready to use format An abundance of worked out examples gives readers numerous practical step by step design procedures Special attention is given to rehabilitation retrofit and maintenance Coverage also includes seismic design and building materials Thoroughly revised and updated this second edition contains 26 new chapters

2006 IBC Structural/seismic Design Manual, 2009 Volume 3 provides examples that illustrate the seismic design of structures using concrete and steel

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earthquakes generation of design basis ground motion and fundamentals of structural dynamics further it delves into geotechnical aspects related to the earthquake design analysis of multi degree of freedom systems and seismic design of RC structures and steel structures. The book discusses the design of components and piping systems located at the ground level as well as at different floor levels of the structure. It also covers anchorage design of component and piping system and provides an introduction to retrofitting seismic response control including seismic base isolation and testing of SSCs. The book is written in an easy to understand way with review questions case studies and detailed examples on each topic. This educational approach makes the book useful in both classrooms and professional training courses for students researchers and professionals alike

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