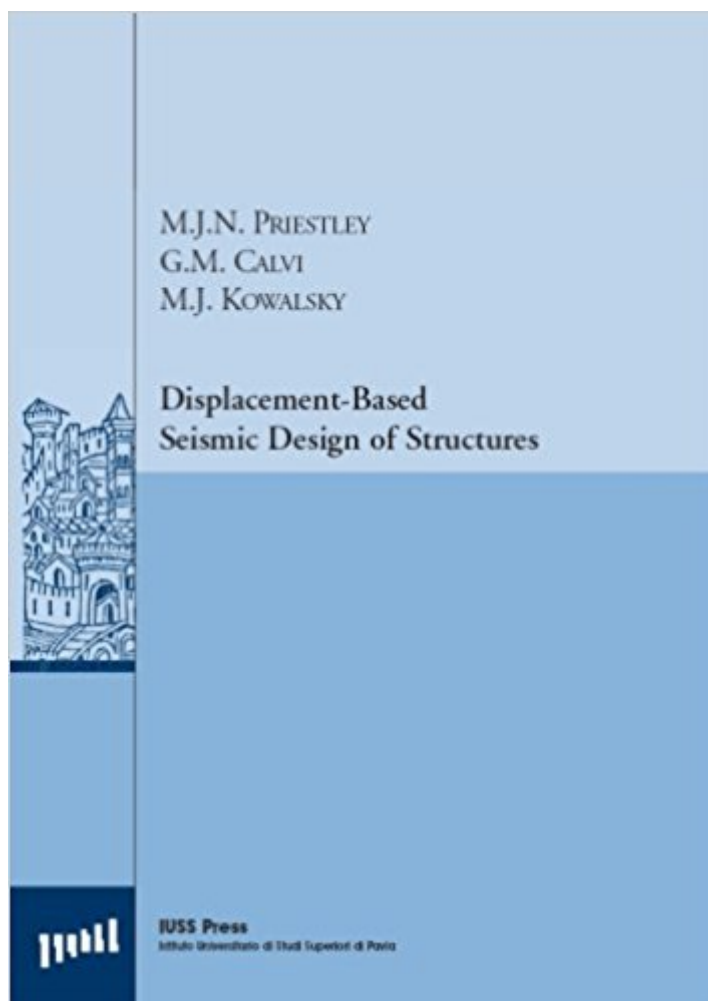


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# Displacement Based Seismic Design Of Structures



## Synopsis

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.

## Book Information

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## Customer Reviews

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. 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.

This book is a bible for any structural designer having to do with earthquake resistant design today. This textbook convinces you from the start, it clearly explains why displacement based design is now a mature design method and is set to become the standard way of designing for earthquakes. Apart from that, the book is so elegantly written. I wish we could all write as clear as these authors. It is not so common to find a state of the art textbook so excellently written and researched. The only complaint: the book has numerous errata and the symbols list is very incomplete. There is room for a lot of improvement in these aspects, hopefully it will be corrected in future editions.

Very good for advance study in field of seismic-structural engineering. Cover a very broadband of materials, starting from basic of nonlinear method thru very advance topics. The negative points is high price of book. Somehow the authors try to prove their opinions and judgments for some practical and still theoretical subjects which may mislead the reader.

This is the definitive reference on the displacement method of seismic design. It is complex but has many illustrative examples. A "must have" for those involved in seismic design.

Very useful tool, great explanations on seismic design. Although methods are based in some "black box" things like damping, is with no doubt a reference work.

I recently graduated from a structural engineering grad program and found this book extremely useful for my research on PBD. The disk that accompanies the book is very useful however frustrating because the MATLAB code is for metric values.

This book is a great reference for structural engineers interested in seismic design. The only concern is the weight of the book (too heavy).

Good book but, -CD is not running with Windows 7-Some programs in the CD is runnig with Windows Wista-it has an errate list, that is not my expectation. Omer Eksi (M.S. Civil Eng.+M.B.A)

A great book for people who want to know the state of art in seismic design.

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