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Web address: www.seaoc.orgThe Structural Engineers Association of California (SEAOC) is a professional association of four regional member organizations (Southern California, Northern California, San Diego, and Central California). SEAOC represents the structural engineering community in California. 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The material presented in this publication should not be used for any specific application without competent examination and verification of its accuracy, suitability, and applicability. Users of information from this publication assume all liability arising from such use.First Printing: September 201300_FM 2012 IBC SSDM V2.indd iii00_FM 2012 IBC SSDM V2.indd ii 9/9/2013 12:50:45 PM9/9/2013 12:50:45 PM2012 IBC SEAOC Structural/Seismic Design Manual, Vol. 2 iiiSuggestions for ImprovementComments and suggestions for improvements are welcome and should be sent to the following:Structural Engineers Association of California (SEAOC)Don Schinske, Executive Director1400 K Street, Suite 212Sacramento, California 95814Telephone: (916) 447-1198; Fax: (916) 444-1501E-mail: Errata NotificationSEAOC has made a substantial effort to ensure that the information in this document is accurate. 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The manual has bridged the gap between the discursive treatment of topics in the SEAOC Blue Book (Recommended Lateral Force Requirements and Commentary) and real-world decisions that designers face in their practice. The examples illustrate code-compliant designs engineered to achieve good performance under severe seismic loading. In some cases simply complying with building-code requirements does not ensure good seismic response. This manual takes the approach of exceeding the minimum code requirements in such cases, with discussion of the reasons for doing so. Recent editions of the IBC SEAOC Seismic/Structural Design Manual have consisted of updates of previous editions, modified to address changes in the building code and referenced standards. Many of the adopted standards did not change between the 2006 edition of the International Building Code and the 2009 edition. The 2012 edition, which is the one used in this set of manuals, represents an extensive change of adopted standards, with many substantial changes in methodology. Additionally, this edition has been substantially revised. New examples have been included to address new code provisions and new systems, as well as to address areas in which the codes and standards provide insufficient guidance. Important examples such as the design of base-plate anchorages for steel systems and the design of diaphragms have been added. This expanded edition comprises five volumes: Volume 1: Code Application Examples Volume 2: Examples for Light-Frame, Tilt-Up, and Masonry Buildings Volume 3: Examples for Reinforced Concrete Buildings Volume 4: Examples for Steel-Framed Buildings Volume 5: Examples for Seismically Isolated Buildings and Buildings with Supplemental DampingPrevious editions have been three volumes. This expanded edition contains more types of systems for concrete buildings and steel buildings. These are no longer contained in the same volume. Volumes 3 and 4 of the 2012 edition replace Volume 3 of the 2009 edition. Additionally, we have fulfilled the long-standing goal of including examples addressing seismic isolation and supplemental damping. These examples are presented in the new Volume 5. In general, the provisions for developing the design base shear, distributing the base-shear-forces vertically and horizontally, checking for irregularities, etc., are illustrated in Volume 1. The other volumes contain more extensive design examples that address the requirements of the material standards (for example, ACI 318 and AISC 341) that are adopted by the IBC. Building design examples do not illustrate many of the items addressed in Volume 1 in order to permit the inclusion of less-redundant content. Each volume has been produced by a small group of authors under the direction of a manager. The managers have assembled reviewers to ensure coordination with other SEAOC work and publications, most notably the Blue Book, as well as numerical accuracy. This manual can serve as a valuable tool for engineers seeking to design buildings for good seismic response. Rafael SabelliProject Manager00_FM 2012 IBC SSDM V2.indd vii00_FM 2012 IBC SSDM V2.indd vii 9/9/2013 12:50:45 PM9/9/2013 12:50:45 PM00_FM 2012 IBC SSDM V2.indd viii00_FM 2012 IBC SSDM V2.indd viii 9/9/2013 12:50:45 PM9/9/2013 12:50:45 PM2012 IBC SEAOC Structural/Seismic Design Manual, Vol. 2 ixPreface to Volume 2Volume 2 of the 2012 IBC SEAOC Structural/Seismic Design Manual addresses the design of light-frame, concrete tilt-up, and masonry shear wall building systems for seismic loading. These include the illustration of the design requirements for the shear walls and diaphragms, as were illustrated in previous editions, and also important interfaces with the rest of the structure. The design examples in this volume represent a range of structu

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