

shipped by these mills, particularly for material ordered as conforming to the A36 specification, is much stronger than the minimum strength controlled by the specification, and use of the combination of A36 and A572 materials to provide for strong-column-weak-beam conditions will not reliably achieve this goal. In 1997, ASTM introduced a new A992 specification to address this problem. The A992 specification is similar to the ASTM A572, Grade 50 specification, except that maximum as well as minimum yield strengths are specified to provide for more controlled design conditions. In addition, the A992 specification includes increased control on trace elements and can be more weldable than some A572 steels. It is recommended that either A992 or A913 steel be used in SMF applications.

2.6.2 Material Strength Properties

The strength of materials shall be taken as indicated in the *AISC Seismic Provisions* and as modified by these *Recommended Criteria*. Where these *Recommended Criteria* require the use of "expected strength," this shall be the quantity $R_y F_y$ as indicated in the *AISC Seismic Provisions*. The value of R_y for material conforming to *ASTM A992* shall be the same as for material conforming to *ASTM A572 Grade 50*. Where these *Recommended Criteria* require the use of lower-bound strength, or specified strength, the minimum specified value of the yield strength F_y as indicated in the applicable ASTM specification shall be used.

Commentary: The AISC Seismic Provisions specify values of R_y for various materials as indicated in Table 2-1. The quantity $R_y F_y$ is intended to approximate the mean value of the yield strength of material produced to a given specification and grade. The AISC Seismic Provisions permit other values of R_y to be used, if the value of the expected mean yield strength F_{ye} is determined by appropriate testing.

Table 2-1 Values of R_y for Various Material Grades

Material Specification	R_y
ASTM A36	1.5
ASTM A572 Gr. 42	1.3
Other Specifications	1.1

As part of the program of investigations conducted in support of the development of these Recommended Criteria, studies of the statistical variation in strength properties of rolled sections of Grade 50 steel were conducted. These studies indicate that the 1.1 value for R_y is a good representation of the mean value of yield strength when applied to the webs of cross sections. The flexural properties of structural steel, however, are more closely related to the yield strength of the flanges of rolled shapes, which tend to have somewhat lower strength than do the webs. When applied to calculations of the flexural strength

Recommended Seismic Design Criteria For

Ronald O. Hamburger



Recommended Seismic Design Criteria For:

Recommended Seismic Design Criteria for New Steel Moment-Frame Buildings (FEMA 350) Federal Emergency Agency, 2013-03-16 This report FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings has been developed by the SAC Joint Venture under contract to the Federal Emergency Management Agency FEMA to provide organizations engaged in the development of consensus design standards and building code provisions with recommended criteria for the design and construction of new buildings incorporating moment resisting steel frame construction to resist the effects of earthquakes It is one of a series of companion publications addressing the issue of the seismic performance of steel moment frame buildings The set of companion publications includes FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings This publication provides recommended criteria supplemental to FEMA 302 1997 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures for the design and construction of steel moment frame buildings and provides alternative performance based design criteria FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings This publication provides recommended methods to evaluate the probable performance of existing steel moment frame buildings in future earthquakes and to retrofit these buildings for improved performance FEMA 352 Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment Frame Buildings This publication provides recommendations for performing postearthquake inspections to detect damage in steel moment frame buildings following an earthquake evaluating the damaged buildings to determine their safety in the postearthquake environment and repairing damaged buildings FEMA 353 Recommended Specifications and Quality Assurance Guidelines for Steel Moment Frame Construction for Seismic Applications This publication provides recommended specifications for the fabrication and erection of steel moment frames for seismic applications The recommended design criteria contained in the other companion documents are based on the material and workmanship standards contained in this document which also includes discussion of the basis for the quality control and quality assurance criteria contained in the recommended specifications The information contained in these recommended design criteria hereinafter referred to as Recommended Criteria is presented in the form of specific design and performance evaluation procedures together with supporting commentary explaining part of the basis for these recommendations

Recommended Seismic Design Criteria for New Steel Moment-frame Buildings SAC Joint Venture. Guidelines Development Committee, 2000

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Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-Frame Buildings (FEMA 351) Federal Emergency Agency, 2013-03-16 This report FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings has been developed by the SAC Joint Venture under contract to

the Federal Emergency Management Agency FEMA to provide structural engineers with recommended criteria for evaluation of the probable performance of existing steel moment frame buildings in future earthquakes and to provide a basis for updating and revision of evaluation and rehabilitation guidelines and standards It is one of a series of companion publications addressing the issue of the seismic performance of steel moment frame buildings The set of companion publications includes FEMA 350 Recommended Seismic Design Criteria for New Steel Moment Frame Buildings This publication provides recommended criteria supplemental to FEMA 302 1997 NEHRP Recommended Provisions for Seismic Regulations for New Buildings and Other Structures for the design and construction of steel moment frame buildings and provides alternative performance based design criteria FEMA 351 Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment Frame Buildings This publication provides recommended methods to evaluate the probable performance of existing steel moment frame buildings in future earthquakes and to retrofit these buildings for improved performance FEMA 352 Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment Frame Buildings This publication provides recommendations for performing postearthquake inspections to detect damage in steel moment frame buildings following an earthquake evaluating the damaged buildings to determine their safety in the postearthquake environment and repairing damaged buildings FEMA 353 Recommended Specifications and Quality Assurance Guidelines for Steel Moment Frame Construction for Seismic Applications This publication provides recommended specifications for the fabrication and erection of steel moment frames for seismic applications The recommended design criteria contained in the other companion documents are based on the material and workmanship standards contained in this document which also includes discussion of the basis for the quality control and quality assurance criteria contained in the recommended specifications The information contained in these recommended evaluation and upgrade criteria hereinafter referred to as Recommended Criteria is presented in the form of specific recommendations for design and performance evaluation procedures together with supporting commentary explaining part of the basis for these recommendations

Recommended Seismic Evaluation and Upgrade Criteria for Existing Welded Steel Moment-frame Buildings

SAC Joint Venture. Guidelines Development Committee,2000 Recommended Postearthquake Evaluation and Repair Criteria for Welded Steel Moment-frame Buildings SAC Joint Venture. Guidelines Development Committee,2000 *New Recommended Seismic Design Criteria for Steel Moment-frame Buildings* SAC Joint Venture,2000 Consists of speakers slides presented at the training seminar No separate text *Earthquake Engineering Handbook* Charles Scawthorn,Wai-Fah Chen,2002-09-27 Earthquakes are nearly unique among natural phenomena they affect virtually everything within a region from massive buildings and bridges down to the furnishings within a home Successful earthquake engineering therefore requires a broad background in subjects ranging from the geologic causes and effects of earthquakes to understanding the impact of these effects on foundations buildings structures the infrastructure and even their social and economic impact The

Earthquake Engineering Handbook is a comprehensive resource that covers the spectrum of topics relevant to designing for and mitigating earthquakes. In it, international experts present engineering practices, research, and developments in North America, Europe, and the Pacific Rim countries. The emphasis is on professional applications with discussion ranging from basic dynamics and geoscience to new technologies intended to avoid rather than resist the forces of earthquakes. Covering both traditional and innovative practices, the Earthquake Engineering Handbook is the first professional reference that brings together all of earthquake engineering's many facets. Formulas, tables, and illustrations give immediate answers to questions arising in practice, and summaries of the essential elements of each topic paint a global picture from which readers can develop understanding and the ability to think beyond the results presented.

Policy Guide to Steel Moment-Frame Construction William J. Hall, 2008-07. Prior to the 1994 Northridge and 1995 Kobe earthquakes, engineers believed that steel moment frames would bend under earthquake loading but not break. As a result, this became one of the most common types of construction used for major buildings in areas subject to severe earthquakes. The discovery of the potential for fracturing in these frames called to question the adequacy of the building code provisions dealing with this type of construction and created a crisis of confidence. In response, FEMA issued this policy guide to provide a non-technical summary of valuable information, an understanding of the risk associated with steel moment frame buildings, and the practical measures that can be taken to reduce this risk. Illustrations.

Bridge Engineering Handbook, Five Volume Set Wai-Fah Chen, Lian Duan, 2014-01-24. Over 140 experts, 14 countries, and 89 chapters are represented in the second edition of the Bridge Engineering Handbook. This extensive 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.

A Policy Guide to Steel Moment-frame Construction Ronald O. Hamburger, 2000

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Recommended Revisions to Nuclear Regulatory Commission Seismic Design Criteria D. W. Coats, 1980

Primer for design professionals, 2004

Earthquake Engineering for Structural Design W.F. Chen, E.M. Lui, 2005-11-02. Many important advances in designing earthquake-resistant structures have occurred over the last several years. Civil engineers need an authoritative source of information that reflects the issues that are unique to the field. Comprising chapters selected from the second edition of the best-selling Handbook of Structural Engineering, this book provides a tightly focused, economical guide to the theoretical, practical, and computational aspects of earthquake engineering. It discusses the

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dan betina untuk melahirkan individu baru berkembangbiakan generatif ini dibagi menjadi tiga cara yaitu ovipar bertelur vivipar beranak dan ovovivipar bertelur dan beranak dalam artikel ini kita akan

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