

Northridge Earthquake January 17, 1994

PRELIMINARY
RECONNAISSANCE REPORT



**Earthquake Engineering
Research Institute**

Northridge Earthquake January 17 1994 Preliminary Reconnaissance Report

fib Fédération internationale du béton

A red circular graphic with a gradient, appearing as a stylized sun or a lens flare, positioned to the right of the fib logo.

Northridge Earthquake January 17 1994 Preliminary Reconnaissance Report:

Preliminary Report on the Principal Geotechnical Aspects of the January 17, 1994 Northridge Earthquake, 1994 Northridge Earthquake, January 17, 1994, 1994-01-01 This preliminary report contains information gathered by reconnaissance team members during the early stages of the investigation It covers the topics of seismology strong motion records geotechnical and architectural aspects structural and nonstructural damage lifeline systems transportation social impacts and emergency response Contains over 70 photographs and illustrations *Northridge Earthquake of January 17, 1994*, 1995 *Geotechnical Reconnaissance of the Effects of the January 17, 1995, Hyogoken-Nanbu Earthquake, Japan* Koichi Akai, Jonathan D. Bray, Ross W. Boulanger, John T. Christian, 1997 The Jan 17 1995 Hyogoken Nanbu Earthquake was one of the worst disasters to hit Japan in almost half a century It has been compared in its impact to the great Kanto Tokyo Earthquake of 1923 The Kobe Osaka region held many similarities in its geologic and tectonic setting to many areas along the West Coast and possibly other areas of the U S A geotechnical reconnaissance to identify the relevant problems and issues was organized This report provides a timely first hand overview of the type and extent of the geotechnical aspects of the damage Angeles National Forest (N.F.), Elsmere Solid Waste Management Facility, Angeles National Forest (N.F.) Land Adjustment Plan, Angeles County, 1995 **Synopsis of Seismic Threats in the Western United States** Douglas B. Bausch, 1996 **Assessment of Damage to Residential Buildings Caused by the Northridge Earthquake** DIANE Publishing Company, 1995-07 **Seismic Considerations for Communities at Risk** Christopher Arnold, Michael Mahoney, 1998-03 This community handbook will increase awareness of seismic risk includes up to date information on seismic design construction practices It is designed to provide interested individuals across the nation with information that will assist them in assessing the seismic risk to their buildings their community in determining what might be done to mitigate that risk whether on an individual basis or through community building regulatory action Contents when happens to structures when the ground moves decisions decisions how can I make my community act codes standards etc Illustrated Post-Earthquake Rehabilitation and Reconstruction F.Y. Cheng, Y.Y. Wang, 1996-10-14 Damage assessment rehabilitation decision making social consequences repair and reconstruction these are all critical factors for considerations following natural disasters such as earthquakes In order to address these issues the United States of America and the Peoples Republic of China regularly organize bilateral symposia workshops to investigate multiple hazard mitigation particularly with respect to earthquake engineering This book contains state of the art reports presented by world renowned researchers at the US PRC Symposium Workshop on Post Earthquake Rehabilitation and Reconstruction held in Kunming Yunnan China May 1995 The following key areas are addressed damage assessment of structures after earthquakes lessons of post earthquake recovery rehabilitation and reconstruction including public policy land use options urban planning and design issues in and examples of decision making and implementation of rehabilitation and reconstruction plans and policies repair strengthening

retrofit and control of structures and lifeline systems post earthquake socio economic problems covering issues of relief and recovery human and organizational behavior during emergency response and strategies for improvement real time monitoring of earthquake response and damage Assessment of Damage to Residential Buildings Caused by the Northridge Earthquake ,1994 **Hyogo-Ken Nanbu Earthquake of January 17, 1995** Committee on Ports and Harbors Lifelines,1996-01-01 Prepared by the Committee on Ports and Harbors Lifelines of the Technical Council on Lifeline Earthquake Engineering of ASCE Hyogo Ken Nanbu Earthquake of January 17 1995 A Post Earthquake Reconnaissance of Port Facilities describes the seismic performance of ports in the Osaka Bay region of Japan following the Hyogo Ken Nanbu earthquake A team of investigators observed and evaluated the seismic performance of the port facilities and then held numerous data gathering meetings with representatives from relevant port authorities engineering consulting firms construction companies universities and private research organizations in Japan The investigation was carried out over a 10 day period February 18 27 1995 and focused primarily on the Port of Kobe the Port of Osaka and to a lesser degree the Kansai Airport This first hand documentation of perishable data will enhance future engineering and research work at these and other ports around the world **5th International Phd Symposium in Civil Engineering Vol1** ,2004 **A Compendium of Background Reports on the Northridge Earthquake (January 17, 1994) for Executive Order W-78-94** California. Seismic Safety Commission,1995 **Mechanics of Structures and Materials XXIV** Hong Hao,Chunwei Zhang,2019-08-08 Mechanics of Structures and Materials Advancements and Challenges is a collection of peer reviewed papers presented at the 24th Australasian Conference on the Mechanics of Structures and Materials ACMSM24 Curtin University Perth Western Australia 6 9 December 2016 The contributions from academics researchers and practising engineers from Australasian Asia pacific region and around the world cover a wide range of topics including Structural mechanics Computational mechanics Reinforced and prestressed concrete structures Steel structures Composite structures Civil engineering materials Fire engineering Coastal and offshore structures Dynamic analysis of structures Structural health monitoring and damage identification Structural reliability analysis and design Structural optimization Fracture and damage mechanics Soil mechanics and foundation engineering Pavement materials and technology Shock and impact loading Earthquake loading Traffic and other man made loadings Wave and wind loading Thermal effects Design codes Mechanics of Structures and Materials Advancements and Challenges will be of interest to academics and professionals involved in Structural Engineering and Materials Science **Wind and Seismic Effects** United States-Japan Cooperative Program in Natural Resources. Panel on Wind and Seismic Effects. Joint Meeting,1994 Proceedings of the International Symposium on Engineering under Uncertainty: Safety Assessment and Management (ISEUSAM - 2012) Subrata Chakraborty,Gautam Bhattacharya,2013-03-12 International Symposium on Engineering under Uncertainty Safety Assessment and Management ISEUSAM 2012 is organized by Bengal Engineering and Science University India during the first week of January 2012 at

Kolkata The primary aim of ISEUSAM 2012 is to provide a platform to facilitate the discussion for a better understanding and management of uncertainty and risk encompassing various aspects of safety and reliability of engineering systems The conference received an overwhelming response from national as well as international scholars experts and delegates from different parts of the world Papers received from authors of several countries including Australia Canada China Germany Italy UAE UK and USA besides India More than two hundred authors have shown their interest in the symposium The Proceedings presents ninety two high quality papers which address issues of uncertainty encompassing various fields of engineering i e uncertainty analysis and modelling structural reliability geotechnical engineering vibration control earthquake engineering environmental engineering stochastic dynamics transportation system system identification and damage assessment and infrastructure engineering

Seismic Design of Precast Concrete Building Structures fib Fédération internationale du béton, 2003-01-01 The aim of this state of art report is to present current practices for use of precast and prestressed concrete in countries in seismic regions to recommend good practice and to discuss current developments The report has been drafted by 30 contributors from nine different countries This state of art report covers state of the practice in various countries advantages and disadvantages of incorporating precast reinforced and prestressed concrete in construction lessons learned from previous earthquakes construction concepts design approaches primary lateral load resisting systems precast and prestressed concrete frame systems and structural walls including dual systems diaphragms of precast and prestressed concrete floor units modelling and analytical methods gravity load resisting systems foundations and miscellaneous elements shells folded plates stairs and architectural cladding panels Design equations are reported where necessary but the emphasis is on principles Ordinary cast in place reinforced concrete is not considered in this report This fib state of the art report is intended to assist designers and constructors to provide safe and economical applications of structural precast concrete and at the same time to allow innovation in design and construction to continue This Bulletin N 27 was approved as an fib state of art report in autumn 2002 by fib Commission 7 Seismic design

Fundamentals of Earthquake Engineering Amr S. Elnashai, Luigi Di Sarno, 2015-07-21 Fundamentals of Earthquake Engineering From Source to Fragility Second Edition combines aspects of engineering seismology structural and geotechnical earthquake engineering to assemble the vital components required for a deep understanding of response of structures to earthquake ground motion from the seismic source to the evaluation of actions and deformation required for design and culminating with probabilistic fragility analysis that applies to individual as well as groups of buildings Basic concepts for accounting for the effects of soil structure interaction effects in seismic design and assessment are also provided in this second edition The nature of earthquake risk assessment is inherently multi disciplinary Whereas this book addresses only structural safety assessment and design the problem is cast in its appropriate context by relating structural damage states to societal consequences and expectations through the fundamental response quantities of stiffness strength and

ductility This new edition includes material on the nature of earthquake sources and mechanisms various methods for the characterization of earthquake input motion effects of soil structure interaction damage observed in reconnaissance missions modeling of structures for the purposes of response simulation definition of performance limit states fragility relationships derivation features and effects of underlying soil structural and architectural systems for optimal seismic response and action and deformation quantities suitable for design Key features Unified and novel approach from source to fragility Clear conceptual framework for structural response analysis earthquake input characterization modelling of soil structure interaction and derivation of fragility functions Theory and relevant practical applications are merged within each chapter Contains a new chapter on the derivation of fragility Accompanied by a website containing illustrative slides problems with solutions and worked through examples Fundamentals of Earthquake Engineering From Source to Fragility Second Edition is designed to support graduate teaching and learning introduce practising structural and geotechnical engineers to earthquake analysis and design problems as well as being a reference book for further studies Seismic Assessment and Retrofit of Reinforced Concrete Buildings fib Fédération internationale du béton, 2003-08-01 In most parts of the developed world the building stock and the civil infrastructure are ageing and in constant need of maintenance repair and upgrading Moreover in the light of our current knowledge and of modern codes the majority of buildings stock and other types of structures in many parts of the world are substandard and deficient This is especially so in earthquake prone regions as even there seismic design of structures is relatively recent In those regions the major part of the seismic threat to human life and property comes from old buildings Due to the infrastructure s increasing decay frequently combined with the need for structural upgrading to meet more stringent design requirements especially against seismic loads structural retrofitting is becoming more and more important and receives today considerable emphasis throughout the world In response to this need a major part of the fib Model Code 2005 currently under development is being devoted to structural conservation and maintenance More importantly in recognition of the importance of the seismic threat arising from existing substandard buildings the first standards for structural upgrading to be promoted by the international engineering community and by regulatory authorities alike are for seismic rehabilitation of buildings This is the case for example of Part 3 Strengthening and Repair of Buildings of Eurocode 8 i e of the draft European Standard for earthquake resistant design and which is the only one among the current 2003 set of 58 Eurocodes attempting to address the problem of structural upgrading It is also the case of the recent 2001 ASCE draft standard on Seismic evaluation of existing buildings and of the 1996 Law for promotion of seismic strengthening of existing reinforced concrete structures in Japan As noted in Chapter 1 of this Bulletin fib as CEB and FIP did before has placed considerable emphasis on assessment and rehabilitation of existing structures The present Bulletin is a culmination of this effort in the special but very important field of seismic assessment and rehabilitation It has been elaborated over a period of 4 years by Task Group 7 1 Assessment and retrofit of existing structures of fib Commission

7 Seismic design a truly international team of experts representing the expertise and experience of all the important seismic regions of the world In the course of its work the team had six plenary two day meetings in January 1999 in Pavia Italy in August 1999 in Raleigh North Carolina in February 2000 in Queenstown New Zealand in July 2000 in Patras Greece in March 2001 in Lausanne Switzerland and in August 2001 in Seattle Washington In October 2002 the final draft of the Bulletin was presented to public during the 1st fib Congress in Osaka It was also there that it was approved by fib Commission 7 Seismic Design The contents is structured into main chapters as follows 1 Introduction 2 Performance objectives and system considerations 3 Review of seismic assessment procedures 4 Strength and deformation capacity of non seismically detailed components 5 Seismic retrofitting techniques 6 Probabilistic concepts and methods 7 Case studies

Life-Cycle of Structures and Infrastructure Systems Fabio Biondini, Dan M. Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at Politecnico di Milano Milan Italy 26 July 2023 This Open Access Book contains the full papers of 514 contributions including the Fazlur R Khan Plenary Lecture nine Keynote Lectures and 504 technical papers from 45 countries The papers cover recent advances and cutting edge research in the field of life cycle civil engineering including emerging concepts and innovative applications related to life cycle design assessment inspection monitoring repair maintenance rehabilitation and management of structures and infrastructure systems under uncertainty Major topics covered include life cycle safety reliability risk resilience and sustainability life cycle damaging processes life cycle design and assessment life cycle inspection and monitoring life cycle maintenance and management life cycle performance of special structures life cycle cost of structures and infrastructure systems and life cycle oriented computational tools among others This Open Access Book provides an up to date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle reliability resilience and sustainability of structures and infrastructure systems exposed to multiple natural and human made hazards in a changing climate It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students researchers practitioners consultants contractors decision makers and representatives of managing bodies and public authorities from all branches of civil engineering

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