

SEISMIC DESIGN

A MODULE IN THE UPDATED RGE EXAM STUDY SERIES

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ABOUT THE UPDATED RGE EXAM STUDY SERIES

CalGeo released its 10-module “Geotechnical Engineer License Review Course” in the late 1980s and early 1990s. Starting in Fall 2023, CalGeo has been releasing an update to this much used course through iterative live virtual webinars, each of which will be scheduled for two hours of lecture and one hour of Q&A.

ABOUT THE SEISMIC DESIGN MODULE

Section 1: Introduction

Section 2: Seismic Site Class

Section 3: Ground Motion Parameters

Section 4: Seismic Design Category

Section 5: Code Based Ground Motions

Section 6: Site Specific Ground Motions

Section 7: Ground Motion Models

Section 8: Seismic Source Model

Section 9: Seismic Hazards

Section 10: Soil Structure Interaction

Section 11: Regulatory Requirements

Section 12: Example Problems

ABOUT THE PRESENTER

Dr. Zafir is a Vice President and Senior Technical Manager for seismic and geotechnical earthquake engineering at Kleinfelder. A registered civil and geotechnical engineer in California, he earned his BS from Pakistan, MS from Iowa State University, and PhD from University of Nevada, Reno. Dr. Zafir has more than 35 years of experience in the field of geotechnical and earthquake engineering and research. He has been actively involved on seismic hazard evaluations and seismic retrofit for renowned national and international projects such as the seismic retrofit of the Golden Gate Bridge in San Francisco. Dr. Zafir is the chair of TC-1 of the ASCE 7 Seismic Subcommittee (SSC). TC-1 oversees Chapters 11, 20, 21, and 22 of the ASCE 7 Standard. He is also the vice chair of the Issue Team 3 of the Provision Update Committee (PUC) of the Building Seismic Safety Council (BSSC), which addresses ground motion and geotechnical issues for NEHRP Provisions updates. Dr. Zafir is also a Governor-appointed member of the California State Mining and Geology Board, which oversees the CGS Seismic Hazard Mapping program. He has also been an invited speaker at universities and professional engineering associations across the United States. He has also previously served on the editorial board of *Earthquake Spectra* for two 3-year terms.



ZIA ZAFIR, PHD, PE, GE
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