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engineering during the early part of the 20th century. The publication of Erdbaumechanik by Karl Terzaghi in 1926 gave birth to modern soil mechanics. The term geotechnical engineering is defined as the science and practice of that part of civil engineering which involves natural materials found close to the surface of the earth.

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Geotechnical considerations therefore play an integral role in the development of sound earthquake-resistant designs. In this chapter, geotechnical earthquake engineering phenomena such as site-specific amplification, soil liquefaction,

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geotechnical engineers to

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become far more aware of, and eventually engaged in understanding, these phenomena.” (I. M. Idriss, 2002)  
Historical Perspective The 1964 Alaska and Niigata, Japan, earthquakes caused the geotechnical engineering community to better appreciate liquefaction and related effects during earthquakes.

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EARTHQUAKE ENGINEERING

ANALYSES The following notation is used in this chapter: SYMBOL

DEFINITION a Acceleration a max Maximum horizontal acceleration



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at ground surface (also known as peak ground acceleration) A, B, C  
Seismic source types

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