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Bases for design of structures — Seismic actions on structures

*Bases du calcul des constructions — Actions sismiques sur les
structures*



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Foreword

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This document was prepared by ISO/TC 98, *Bases for design of structures*, Subcommittee SC 3, *Loads, forces and other actions*.

This third edition cancels and replaces the second edition (ISO 3010:2001), which has been technically revised.

Introduction

This document presents basic principles for the evaluation of seismic actions on structures. The seismic actions described are fundamentally compatible with ISO 2394.

It also includes principles of seismic design, since the evaluation of seismic actions on structures and the design of the structures are closely related.

[Annexes A](#) to [P](#) of this document are for information only.

NOTE 1 ISO 23469 and ISO 13033 are companion documents to this document. They provide basic design criteria for geotechnical works and for nonstructural components and systems, respectively.

NOTE 2 ISO 23469 specifies the procedure to determine the design ground motion for the dynamic analysis of geotechnical works. The procedure in ISO 23469 is applicable to the generation of design ground motion for the structures that exhibit interaction with the ground or the geotechnical works.

NOTE 3 ISO 13033 and its annexes use the same terms and definitions that are used in this document. The ground motion criteria specified in ISO 13033 are the same criteria that are used in this document. The demand on nonstructural components and systems is directly related to the response of the building in which they are located. Therefore, the procedures used to determine the design ground motion and building seismic response are directly referenced to this document.