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Titolo	Anti-Seismic Devices : A Reference Manual for Structural Engineers // by Agostino Marioni
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
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Descrizione fisica	1 online resource (0 pages)
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1. Early applications of anti-seismic measures -- Chapter 2. The principles of base isolation and seismic protection of structures -- Chapter 3. Base Isolators -- Chapter 4. Hysteretic Dampers -- Chapter 5. Hydraulic Devices -- Chapter 6. Magnetic Dampers -- Chapter 7. The European Standard EN 15129 -- Chapter 8. Main Standards Worldwide and comparison with the European Standard -- Chapter 9. Testing requirements of anti-seismic devices and available testing facilities.
Sommario/riassunto	This book stands as a manual and ready reference for structural engineers on the seismic protection of civil engineering structures.

Beginning with a short historical overview, the book explains the concepts of seismic protection, describes the most common types of anti-seismic devices, and summarizes the main existing standards for anti-seismic devices, with particular reference to the European Standard. It imparts expertise on the devices that is normally restricted by proprietary interests of a few specialists. Then it goes on to illustrate the main differences between European and American Standards, examine the output of the principle laboratories globally engaged in testing anti-seismic devices, and to describe state-of-art technologies to retrofit seismically existing buildings. The volume concludes with a number of accounts of projects involving the author where structures were equipped with anti-seismic devices and provides some insight on the future development of relevant technologies. Imparts expertise on design, manufacture and testing of anti-seismic devices Maximizes engineers' and designers' understanding of appropriate solutions for the seismic protection of a structure Analyzes the behavior of structures subjected to real earthquakes.

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