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of the goals of the
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Hazards Reduction
Program (NEHRP) is to
encourage design and
construction practices
that address the

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earthquake hazard and
minimize the resulting
risk to life and
property.

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Design Concepts: An Introduction to the NEHRP Recommended Seismic Provisions for New Buildings and Other Structures [open pdf - 5 MB] "Of the 500,000 or so detectable earthquakes that occur on Planet Earth each year, people will 'feel' about 100,000 of them and about 100 will cause damage.

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EARTHQUAKE-
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CONCEPTS Foreword
One goal of the Federal
Emergency

Management Agency
(FEMA) and the
National Earthquake
Hazards Reduction

Program (NEHRP) is to
encourage design and
building practices that
address the

earthquake hazard and

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General Concepts
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Design 1. DUCTILITY
-Formally, ductility
refers to the ratio of
the displacement just
prior to ultimate
displacement or... 2.

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DEFORMABILITY:-

Ability of a structure to displace or deform substantial amounts without collapsing.

Besides... 3.

DAMAGEABILITY:- ...

General Concepts Earthquake

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Design (EQRD) and

Energy Concepts An

ideal EQRD should

provide the needed

stiffness, strength, and

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energy dissipation
capacity.

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Concepts**

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Construction Innovate |
Integrate | Collaborate
Basic of Seismic Design
on the application of
construction
techniques, methods
and criteria used for
the design and

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construction of building structures exposed to earthquakes.

Basic concepts of Earthquake- Resistant Design and ...

The foregoing discussion of earthquake-resistant design has emphasized the traditional approach of resisting the forces an earthquake imposes on a structure. An al-

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Alternative approach

which is presently
emerging is to avoid
these forces, by isola-
tion of the structure
from the ground mo-
tions which actually
impose the forces on
the structure.

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Earthquake Resistant
Design Concept Strong
Motion Zone Level 1
Maximum Credible

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Earthquake (MCE) 500
Years Return Period 2
% Possibility of
occurrence in 50 Yrs
Level 2 Design Basis
Earthquake (DBE) 250
Years Return Period 10
% Possibility of
occurrence in 50 Yrs
Earthquake Resistant
Design Philosophy

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on basic concepts in
earthquake resistant
design of buildings,

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Structural Engineers
New Buildings
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first describes these at a conceptual level and then articulates further with numerical examples. It is an attempt to respond to some of the frequently asked questions by Architects and Structural Engineers regarding behaviour of

Some Concepts in Earthquake Behaviour of Buildings

Instructional Material
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Complementing FEMA
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Design Concepts 7 - 7
For Earthquake:

Excitation is an applied displacement at the base. Loading and response are truly dynamic. Structural system deforms as a result of inertial forces. Deformations are fully reversed. Structure is designed to respond inelastically under factored loads.

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6. Aspects of Seismic
Analysis and Design

Checks Common to all
Recommended
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Approximate Method
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and Design 30 8.

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Structures 40 10.

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Moment Resisting

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Frames 47 11. Seismic
Design of Frames with
Concentric Bracing 60
12.

Earthquake Resistant Steel Structures

Description : This
comprehensive and
well-organized book
presents the concepts
and principles of
earthquake resistant
design of structures in
an easy-to-read style.

The use of these

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principles helps in the
implementation of
seismic design
practice.

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CONCEPTS OF SEISMIC-
RESISTANT DESIGN

This topic introduces
the concepts of seismic-
resistant design from a
philosophical
perspective. For this
reason, the NEHRP

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Provisions, the
International Building
Code, and various
standards are
referenced directly.

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Response spectra helps
in obtaining the peak
structural responses
under linear range,
which can be used for
obtaining lateral forces
developed for buildings

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for earthquake-
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resistant design of
structures**

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CONCEPTS
contained in the
nation's building codes
and standards is
important to many
people outside this
technical community
including elected
officials, decision-

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makers in the insurance and financial communities, and individual business owners and other citizens.

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Design of Building

Structures provides up-

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to-date advanced research in the seismic analysis and design. It is an excellent technical resource material for not only undergraduates but also graduate students in Civil and Structural Engineering as well as Practicing Engineers and Architects.

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