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1 Earthquake

Resistant Design

Module 1 Lecture 1

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EARTHQUAKE /

SEISMIC LOADS |

Static Analysis

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Method | Creating
an Earthquake
Resistant Structure
Design of

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Resistant Building |

Principles of

Seismic Design

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3 Lecture 12

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~~2 Lecture 7~~

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Design Buildings To
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~~Earthquakes~~

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Multistory Concrete
Buildings for~~

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Earthquake

Motions

~~EARTHQUAKE~~

~~RESISTANT DESIGN~~

~~OF BUILDINGS :~~

~~SEISMIC METHODS~~

~~OF ANALYSIS (I)~~

~~Earthquake~~

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~~Structures Module~~

~~2 Lecture 8 PartA~~

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resistant design for
Small house

Earthquake proof
building model on
shake table How to
build an
earthquake proof
and typhoon proof
house |

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Engineering STEM
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~~Underground
Design of New
Earthquake Proof
Buildings World's
Largest Earthquake
Test Why Concrete
Needs
Reinforcement
base isolation
system SONA -~~

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Resistant we make
our homes
'earthquake-proof'?
03/30/11 The

Future of
Earthquake-Proof
Buildings
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3 Lecture 10
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#Structures

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07

EUROCODE 8

DESIGN OF

STRUCTURE FOR

EARTHQUAKE

RESISTANCE BASIC

PRINCIPLES AND

DESIGN OF

BUILDINGS

Earthquake

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Structures

Earthquake-

resistant or

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aseismic structures are designed to protect buildings to some or greater extent from earthquakes. While no structure can be entirely immune to damage from earthquakes, the goal of earthquake-resistant construction is to erect structures

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that fare better during seismic activity than their conventional counterparts.

According to building codes, earthquake-resistant structures are intended to withstand the largest earthquake of a certain probability that is

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likely to occur a

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Earthquake-
resistant structures

- Wikipedia

Synopsis. This comprehensive and well-organized book presents the concepts and principles of earthquake resistant design of structures in an

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easy-to-read style.

The use of these principles helps in the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in

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Resistant and design
of structures.

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structures

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Member. An earthquake is vibration of earth surface by waves emerging from the source of disturbance in the earth by virtue of release of energy in the earth's crust. It is essentially a sudden and transient motion or

...

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Structures

It has been assumed that the reader is well acquainted with structural analysis, structural dynamics, and structural design.

The design of earth

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quake-resistant structures is an art as well as science. It is necessary to have an understanding of the manner in which a structure absorbs the energy transmitted to it during an earthquake.

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Resistant Design of
Structures, Second
Edition ...

How to Make A
Building

Earthquake-Proof

1. Create a Flexible
Foundation. One
way to resist

ground forces is to
"lift" the building's
foundation above
the earth. 2.

Counter Forces

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with Damping. You might be aware that cars have shock absorbers.

However, you might not know that... 3. Shield Buildings ...

How Earthquake-Proof Buildings Are Designed —
BigRentz
Published on

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2006-01-01 by PHI
Learning Pvt. Ltd.

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
principles helps in

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the implementation of seismic design practice. The book adopts a step-by-step approach, starting from the fundamentals of structural dynamics to application of seismic codes in analysis and design of structures.

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resistant design of buildings depends upon providing the building with strength, stiffness and inelastic deformation capacity which are

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great enough to
withstand a given
level of earthquake-
generated force.

Earthquake
Resistant Design
Techniques for
Buildings and ...
Earthquake
Resistant Buildings
Design Effect of
Deformations in
Structures. The

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inertia force experienced by the roof is transferred to the ground via the... Horizontal and Vertical Shaking.

Earthquake causes shaking of the ground in all three directions - along the two... Flow of Inertia Forces to ...

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Earthquake
Resistant Buildings
Design -
AboutCivil.Org

When designing earthquake safe structures the first consideration is to make the highest bit, the roof, as light as possible. This is best done with profiled steel cladding on light

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gauge steel Zed purlins. This can also have double skin with spacers and insulation. It can have a roof slope between 3 and 15 degrees.

Earthquake Proof
and Resistant
Building Structures
| REIDsteel
Earthquake

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Resistant building design guidelines are provided by set of Indian Standard codes (IS Codes).

After observing Indian earthquakes for several years Bureau of Indian Standard has divided the country into five zones depending upon the severity of

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Resistant. The role that codes of earthquake design structures play is of utmost important.

I.S Codes on
Earthquake
Resistant Building
Design
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Resistant Design of
Structures 1.
Earthquake and

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- Ground Motion 2.
- Dynamics of Structures and Seismic Response
- Dynamics of Soils and Seismic Response 4.
- Conceptual Design
- Introduction to Earthquake-Resistant Design 6.
- Masonry Buildings
- Timber Buildings
- Reinforced

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Duggal, S.K ...

EARTHQUAKE

RESISTANT DESIGN

OF STRUCTURES 1

Dr. G. P.

Chandradhara

Professor of Civil

Engineering S. J.

College of

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Earthquake

Engineering

Mysore-570 006 E

mail : chandu_gpc

@yahoo.com

Mobile: 094482

46425. Attenuation

of Ground Motion

Since peak

acceleration is the

most commonly

used ground

motion

EARTHQUAKE

Page 36/45

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RESISTANT DESIGN OF STRUCTURES

In earthquake-proof building designs, the diaphragms are a key component in the building's structure. They include the floors and the roofs; structural engineers should ensure to place

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each diaphragm on its own deck and strengthen it horizontally so it shares sideways forces with the vertical structural members.

How to design earthquake proof buildings | S3DA Design
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Structures features
seismic design and
retrofitting

techniques for low
and high rise
buildings, single
and multi-span
bridges, dams and
nuclear facilities.

The author also
compares and
contrasts various
seismic resistant

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techniques in USA,
Russia, Japan,
Turkey, India,
China, New
Zealand, and
Pakistan.

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Structures |
ScienceDirect
e Earthquake
engineering is an
interdisciplinary

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branch of engineering that designs and analyzes structures, such as buildings and bridges, with earthquakes in mind. Its overall goal is to make such structures more resistant to earthquakes.

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Earthquake
engineering -
Wikipedia

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Pankaj Agarwal....

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motion – Un

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vibration – Damped

– Force vibrations...

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Hazard Reduction Program (NEHRP) is to encourage design and building practices that address the earthquake hazard and minimize the resulting risk of damage and injury.

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