

Material Science And Metallurgy By Phaneesh Pdf Download

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SEISMIC ANALYSIS OF RC BUILDINGS AS PER IS1893-2002 CODAL PROVISIONS

The step-by-step procedure for seismic analysis of RC buildings is as follows:

Step 1: Determination of natural period of vibration

The fundamental natural period is the first (longest) modal time period of vibration of the structure. Because the design loading depends on the building period. The fundamental natural period of vibration is calculated based on infill panels. For a moment resisting frame without infill panel,

$$T = 0.075 h^{0.75}$$

[Ref: IS 1893-2002 (Part 1) / Clause 7.6.1 / Page No: 24]

Where, h – Height of the building in m;

For a moment resisting frame with infill panels,

$$T = \frac{0.09 h}{\sqrt{d}}$$

[Ref: IS 1893-2002 (Part 1) / Clause 7.6.2 / Page No: 24]

Where, h – Height of the building in m; d – Least lateral dimension of the building

Step 2: Determination of S_a/g value

Spectral acceleration due to gravity, S_a/g value is taken by relating soil types (Hard, Medium and Soft) with natural period.

For rocky or hard soil sites

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.00 \leq T \leq 0.10 \\ 2.50 & 0.10 \leq T \leq 0.40 \\ 1.00/T & 0.40 \leq T \leq 4.00 \end{cases}$$

For medium soil sites,

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.00 \leq T \leq 0.10 \\ 2.50 & 0.10 \leq T \leq 0.55 \\ 1.36/T & 0.55 \leq T \leq 4.00 \end{cases}$$

For soft soil sites

$$\frac{S_a}{g} = \begin{cases} 1 + 1.5 T & 0.00 \leq T \leq 0.10 \\ 2.50 & 0.10 \leq T \leq 0.67 \\ 1.67/T & 0.67 \leq T \leq 4.00 \end{cases}$$

[Ref: IS 1893-2002 (Part 1) / Clause 7.4.2 / Page No: 16]

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4.5 out of 5 stars 16. MATERIAL SCIENCE. by DR.K.R.PHANEESH | 1 January 2013. 4.5 out of 5 stars 10. A pioneer of e-cigarettes, a form of electronic smoking device, told the Senate Judiciary Committee on Tuesday that his vaping company's recent \$100 million acquisition by tobacco giant Imperial Brands prompted him to defend his company and other e-cig makers. "We are still standing up because this industry is just beginning to take off," said Anupong Suebsri, founder of Surgeon Vapor. "We want to maintain and help the industry's growth. I would tell the committee that we need more regulation and fairness in terms of taxation and consumption." The senator, who sits on the committee, grilled the Canadian-born businessman on issues regarding e-cigarettes, which have been prohibited in many states. Suebsri also said his company's acquisition by the British tobacco giant had no impact on the size of his empire, and he admitted he did not know what percentage of his company's revenue is generated from tobacco sales. Vaping — the use of an e-cigarette, or vaping device — is believed to have more than three million users in Canada, with sales in the country recently hitting \$250 million. Canada's largest retailer, The Body Shop, recently announced the launch of its own e-cigarette products, while licensed tobacco companies are also taking notice. Smoke-free items now available Canadians have a growing ability to purchase "smoke-free" electronic cigarettes through grocery stores, pharmacies and some vape shops. The few remaining tobacco retailers are being pushed out by the rapid growth of the vaping market, and the debate about its use has become a political issue. The American Centers for Disease Control and Prevention says e-cigarettes are no safer than traditional cigarettes and can be a gateway for youths to try regular smoking. In April 2016, Health Canada announced it would require e-cigarettes to include health warnings similar to those on conventional cigarettes. Follow @DavidKeeleyBC Welcome to HMH Sub-Zero! Imagine living in a home with the charm of yesteryear, but with all the amenities you and your family have come to expect. Sub-Zero is the name of a home heating and cooling system. Like this home, they are stylish, efficient, and made in the USA. Sub- f3e1b3768c

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