

**Jigar Sevalia / Yogesh Rathod / Sunil Kukadiya  
/ Sarthi Bhavsar**

## **Dynamic Analysis of Structures for Looms Industry**

*A Parametric Study*

**Bachelor Thesis**

# Dynamic Analysis Of Structures For Looms Industry

**P. A. Malyshev**



## **Dynamic Analysis Of Structures For Looms Industry:**

Dynamic Analysis of Structures for Looms Industry Jigar Sevalia, Yogesh Rathod, Sunil Kukadiya, Sarthi Bhavsar, 2014-09-26 Bachelor Thesis from the year 2013 in the subject Engineering Civil Engineering grade AA Gujarat University Gujarat Technological University course Final Year Project language English abstract Ever since the existence of mankind it has noticed a remarkable advancement in field of science and technology Traditional hand weaving methods have been replaced by modern and speedy looms machine With faster production rate these machines proved to be a boon for textile manufacturers However they come with an unnoticed problem of vibration Hence there arises a need to study the effects of vibrations on the structural as well as non structural components of the building Here in this project an attempt has been made to study the dynamic behavior of a structure for looms industry subjected to vibration due to operations of looms machine by changing its various parameters With an increase in demand of textile more and more looms machines are being installed every day While designing the structure to house these looms it becomes incumbent upon the designer to curtail the amplitude of vibrations within the permissible limits One must also make sure that the frequency of structure is separated for operating frequency of machine by a good margin so that the Resonance Condition can be avoided The looms machine fall under the category of reciprocating machine and have medium operating speed ranging from 100 rpm to 180 rpm The main source of vibration is the Beating Up motion This generates a Harmonic Load due to the unbalanced force caused by the reciprocating sley movement Hence the designing of structure for looms industry is a complex process which needs prime considerations The cost of dynamic analysis of these structure is paramount hence a small fraction of amount is being spent might lead to inadequately constructed structures which may result in failure and shut downs exceeding many times the cost of the capital investment required for properly designed and built structure Now in such a case by executing parametric study one can decide which parameter out of many is most sensitive to odd results so that by varying those parameters only results can be brought to the required level and do not affect other reliable results An attempt is made in the thesis to carry out a parametric study by using software STAAD Pro Following Parameters are studied in this thesis 1 Sizes of Column 2 Sizes of Beams 3 Story Height 4 Number of Stories Effect of remedial measures like 1 Cross Bracing below Plinth Level 2 Full Length Jacketing of Columns 3 Partial Length Jacketing of Columns 4 Cross Tie Beams 5 Haunches at the Junction

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**The Shock and Vibration Digest**, 1977 *Proceedings of the Technological Conference* Ahmedabad Textile Industry's Research Association, 1977 Textile Technology Digest, 1990 Production Organizations in Japanese Economic Development Tetsuji Okazaki, 2007-01-18 In this important new book the authors explore how production was organized in the context of the economic development of modern Japan Production organizations are taken to mean the long term relationships which economic agents create for production based on employment contracts or long term transactions This includes hierarchical organizations such as factories and corporations but also flexible arrangements such as subcontracting Modern Japanese economic development is characterized by the co evolution of these two types of production organizations while American economic development in the modern period is characterized by the development of a mass production system based on large hierarchical organizations The question is raised as to why and how a certain type of organization proliferated in a certain industry in a certain period and what the role of that organization was in coordinating production and giving incentives to the economic agents involved The result is a comparative institutional analysis of the organizational foundations of Japanese economic development in the modern period **Abstracts of Bulgarian Scientific Literature**, 1972 *Energy Research Abstracts*, 1982 *Current Literature on Science of Science*, 2000 ASME Technical Papers, 1978 Energy Research Abstracts, 1983 **Journal of Mechanical Design**, 1981 **Technology of the Textile Industry, U.S.S.R.**, 1966 *International Journal of Vehicle Design*, 1983 *The Engineering Index Annual*, 1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current awareness new production information technological forecasting and competitive intelligence The world's most comprehensive interdisciplinary engineering database Engineering Index contains over 10.7 million records Each year over 500,000 new abstracts are added from over 5,000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly Fossil Energy Update, 1982 **Empire Cotton Growing Review**, 1940 **Industrial Planning, Productivity and Technical Progress in India** Karakavalasa Umamahesh Patnaik, 1991 An Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994

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