



Dynamic Analysis of Structures for Looms Industry

Jigar Sevalia, Yogesh Rathod, Sunil Kukadiya

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Dynamic Analysis of Structures for Looms Industry Jigar Sevalia, Yogesh Rathod, Sunil Kukadiya 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, comment: List of Papers published 1) "Dynamic Analysis of Structures for Looms Industry - A Parametric Study", IJERA, ISSN: 2248-9622, 2013 2) "Performance Evaluation of Industrial Building subjected to Dynamic Loading", IJERA, ISSN: 2248-9622, 2013 3) "Study on Remedial Measures to Control Machine Induced Vibration of Factory Building ",IJEAT, ISSN: 2249-8958, 2013 4) "Dynamic Analysis of R.C.C Frame Structure for Looms Industry", IJERA, ISSN: 2248-9622, 2013 5) "Response of Reformative Efforts on Vibration Control of Industrial Building", IJCET, ISSN: 2277-4106, 2013, 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 Traditional hand weaving methods have been replaced by modern and speedy looms machine.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 operatin

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