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Finite Element Analysis of a Fibre-Reinforced Plastic Composite Floor

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Considering Passive and Live Loads | This work investigates the conventional and Fibre-Reinforced Plastic (FRP) composite floor vibration behaviour of an existing building based on a comprehensive study of high modal dynamic responses, the range of which has been absent in previous studies and major analytical templates, of different panels under the influence of loads induced by human motion. The resulting fundamental natural frequency and vibration modes are first validated with respect to experimental and numerical evidences from literature. Departing from close correlation established in comparison, this study explores in detail the effects of intensity and coordination of passive live load as additional stationary mass due to crowd jumping as well as considering human structure interaction. In the different study, the effect of intensity and crowd size of active live load is investigated. It is concluded that higher vibration modes are essential to determine the minimum required modes and mass participation ratio in the case of vertical vibration. | Format: Paperback | Language/Sprache: english | 108 pp.



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