



Analysis of Composite Concrete Beam -Slab System Under Dynamic Loads

By Aziz Ibrahim Abdulla

LAP Lambert Academic Publishing Okt 2011, 2011. Taschenbuch. Book Condition: Neu. 220x150x10 mm. This item is printed on demand - Print on Demand Neuware - The book is divided into eight chapters: chapter one give the necessary information to the problem. A review of the literature and research on the behavior of composite concrete beam-slab, shear connectors, interface elements, and dynamic behavior are presented in chapter two. In chapter three, a description of types of dynamic loading is given. Chapter four presents the basic concepts of the finite element and dynamic finite element formulation for beam-slab structures. In chapter five, materials modeling is presented for the reinforced concrete beam-slab suitable for the linear and the nonlinear dynamic analysis. Concrete, steel reinforcement, and the interface representations are also described. In chapter six, numerical application is performed to verify the finite element formulation and the materials modeling for the composite reinforced concrete beam-slab and the results are compared with available test results. In chapter seven, conclusions and recommendations are given. 164 pp. Englisch.

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