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Bridges' Dynamics

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About the eBook

This eBook explains the theory behind engineering aspects such as 1) dynamic loadings, 2) mathematical concepts 3) moving loads, 4) bridge support mechanics, 5) Static systems under dynamic loading 6) aero-elasticity, 7) space problems and 8) absorb systems (equations governing the behavior of the bridge-absorber system). The e-book is a useful introductory textbook for civil engineers interested in the theory of bridge structures.

Contents

- ▶ Distressing - Loading - Modelling of Vehicles
- ▶ Principles of Dynamic Analysis
- ▶ The Problem of Moving Loads
- ▶ Motion of Supports
- ▶ Structural Analysis of Bridges
- ▶ Aeroelasticity

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