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# Bridges' Dynamics

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## About the ebook

This e-book 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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