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Mathematics arising from suspension bridge dynamics: Recent developments. (English)

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Jahresber. Dtsch. Math.-Ver. 101, No. 4, 178-195 (1999).

Summary: Since the late eighties, there has been a resurgence in interest in the mathematics arising from large oscillations in early suspension bridges. Recent progress in nonlinear analysis has given new insights into this phenomenon and has raised new research problems for present-day mathematicians. The goal of this paper is to give a brief survey of the progress over the last years.

Reviewer: [Eryk Infeld \(Warszawa\)](#)

MSC:

[34C25](#) Periodic solutions to ordinary differential equations

[34-02](#) Research exposition (monographs, survey articles) pertaining to ordinary differential equations

[34A40](#) Differential inequalities involving functions of a single real variable

Cited in **2** Documents

Keywords:

[dynamics](#); [large oscillations](#); [suspension bridges](#)