

## عنوان مقاله:

A Novel Approach to Design of Truss-Beams for Natural Frequency

## محل انتشار:

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## خلاصه مقاله:

Here, we present a novel two-step approach for optimum design of cellular truss-beams based on desired natural frequencies. The proposed approach attempts to decrease the design complexities, based on the so called Axiomatic Design, before any effort to solve the physical problem itself. It also serves as a generic approach which finds its generality through dimensional analysis with its accuracy from finite element analysis and its optimality from the fact that it remains true for all similar frameworks. The applicability as well as strength of the method is highlighted by some numerical examples.

## کلمات کلیدی:

Truss-beam, Natural frequency, Novel Design, Axiomatic Design

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/1732339>

