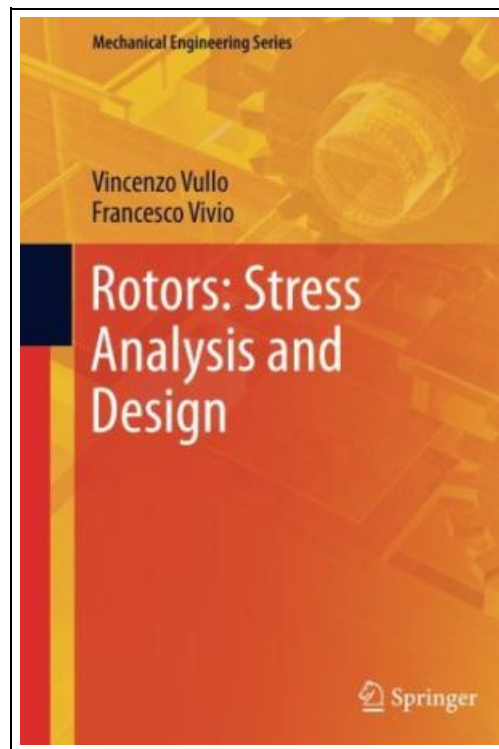


Rotors: Stress Analysis and Design



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ROTORS: STRESS ANALYSIS AND DESIGN



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Condition: New. Publisher/Verlag: Springer, Berlin | This comprehensive treatment of a classic element of machine design examines not only 'classic' aspects of the subject, but also includes advanced material from the authors, including the presentation of new solutions in closed form to aid conceptual design. | Stress and strain analysis of rotors subjected to surface and body loads, as well as to thermal loads deriving from temperature variation along the radius, constitutes a classic subject of machine design. Nevertheless attention is limited to rotor profiles for which governing equations are solvable in closed form. Furthermore very few actual engineering issues may relate to structures for which stress and strain analysis in the linear elastic field and, even more, under non-linear conditions (i.e. plastic or viscoelastic conditions) produces equations to be solved in closed form. Moreover, when a product is still in its design stage, an analytical formulation with closed-form solution is of course simpler and more versatile than numerical methods, and it allows to quickly define a general configuration, which may then be fine-tuned using such numerical methods. In this view, all subjects are based on analytical-methodological approach, and some new solutions in closed form are presented. The analytical formulation of problems is always carried out considering actual engineering applications. Moreover, in order to make the use of analytical models even more friendly at the product design stage, a function is introduced whereby it is possible to define a fourfold infinity of disk profiles, solid or annular, concave or convex, converging or diverging. Such subjects, even derived from scientific authors' contributions, are always aimed at designing rotors at the concept stage, i.e. in what precedes detailed design. Among the many contributions, a special mention is due for the following: linear elastic analysis of conical disks and disks with variable profile along its...



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