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| Autore | Kubiak Tomasz |
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| Soggetti | Buckling (Mechanics) Structural stability Plates (Engineering) Thin-walled structures Structural analysis (Engineering) |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references. |
| Nota di contenuto | Introduction -- Theory Of Thin Plates For Laminates -- Analytical -- Numerical Method -- Dynamic Buckling -- Thin Plates -- Thin-Walled Columns -- Girders Subjected To Pure Bending -- Thin-Walled Girders Subjected To Torsion -- Thin-Walled Girders Subjected To Combined Load. |
| Sommario/riassunto | This monograph deals with buckling and postbuckling behavior of thin plates and thin-walled structures with flat wall subjected to static and dynamic load. The investigations are carried out in elastic range. The basic assumption here is the thin plate theory. This method is used to determination the buckling load and postbuckling analysis of thin-walled structures subjected to static and dynamic load. The book introduces two methods for static and dynamic buckling investigation which allow for a wider understanding of the phenomenon. Two different methods also can allow uncoupling of the phenomena occurring at the same time and attempt to estimate their impact on the final result. A general mathematical model, adopted in proposed |

analytical-numerical method, enables the consideration of all types of stability loss i.e.local, global and interactive forms of buckling. The applied numerical-numerical method includes adjacent of walls, shear-lag phenomenon and a deplanation of cross-sections.
