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Plates: Theories and Applications

By K. Bhaskar and T.K. Varadan

Ane Books, 2015. Soft cover. Condition: New. Dust Jacket Condition: New. 1st Edition. Contents: Part I: Classical Theory and Straight forward Applications: 1. Definition of a thin plate. 2. Classical plate theory. 3. A critical assessment of classical plate theory. 4. Analysis of rectangular plates. 5. Analysis of circular plates. 6. Free and forced vibration. 7. Effect of in-plane forces on static flexure, dynamics and stability. 8. Approximate solutions. Appendix - solutions for problems. Part II: Complicating Effects and Corresponding Theories: 9. Anisotropic, laminated and functionally-graded plates. 10. Elasticity solutions for plates. 11. Shear deformation theories. 12. Variable thickness plates. 13. Plate buckling due to non-uniform compression. 14. Non-linear flexure and vibration. 15. Post-buckling behaviour. Index. Plates are encountered in several forms-starting from the simple uniform, thin, homogeneous metallic structure to more efficient and durable alternatives involving features such as variable-thickness, lamination, sandwich construction, fiber reinforcement, functional graduation, and moderately- thick to very-thick geometry. Correspondingly, several theoretical models are employed for their analysis and design starting from the classical thin plate theory to alternatives obtained by incorporation of appropriate complicating effects or by using fundamentally different assumptions. This book is an attempt to capture the essentials of this development...



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