

Thin-walled Composite Beams

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Preface.- Introduction.- Kinematics of Thin Walled Beam.- The Equations of Motion of Open/Closed Cross-Section Beams.- Additional Equations of the Linear Beam Theory.- Several Theorems in Linear Thin-Walled Beam Theory.- Free Vibration.- Dynamic Response to Time-Dependent External Excitation.- Thin-Walled Beams Carrying Stores.- Rotating Thin-Walled Anisotropic Beams.- Spinning Thin-Walled Anisotropic Beams.- Thermally Induced Vibration and Control of Spacecraft Booms.- Aeroelasticity of Thin-Walled Aircraft Wings.- Open-Section Beams. Appendix.- The Constitutive Equations. -References; Index EAN/ISBN : 9781402042034 Publisher(s): Springer Netherlands Discussed keywords:

Verbundtrger Format: ePub/PDF Author(s): Librescu, Liviu - Song, Ohseop

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