

Performance, Stability, Dynamics, and Control of Airplanes (Aiaa Education Series)

By Bandu N. Pamadi



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This text provides a comprehensive and integrated exposure to airplane performance, stability, dynamics and flight control. It supports a two semester course for senior undergraduate or first year graduate students in aerospace engineering. Basic aerodynamics, dynamics and linear control systems are presented to help the reader grasp the main subject matter. In this text, the airplane is assumed to be a rigid body - elastic deformations and their effects on airplane motion are not considered. Numerous solved examples illustrate theory and design methods. Several exercise problems with answers are included in each chapter to help the reader acquire problem solving skills. In addition, Matlab tools are used for the control design.



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About the Author

Bandu N. Pamadi is a Senior Aerospace Engineer at NASA Langley Research Center, Hampton, Va. He taught for about 15 years at Indian Institute of Technology, Bombay and at the Old Dominion University, Norfolk, Va. He earned his B.S. in mechanical engineering from Karnatak University, M.S. in aeronautical engineering from Indian Institute of Science, Bangalore, and Ph.D. in aeronautical engineering (aerodynamics) from Indian Institute of Technology, Bombay. He is an associate fellow of AIAA and a fellow of Aeronautical Society of India.

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