

Performance, Stability, Dynamics, and **Control of Airplanes, Second Edition (AIAA Education**)

By B. Pamadi



Performance, Stability, Dynamics, and Control of Airplanes, Second Edition (AIAA Education) By B. Pamadi

This provides a comprehensive and integrated exposure to airplane performance, stability, dynamics, and flight control. Basic aerodynamics, dynamics, and linear control systems are presented. 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, Matlabae tools are used for the control design. In this second edition, several typographical errors are corrected, lists of symbols/nomenclature and tables of formulas are included to facilitate the reader.



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Editorial Review

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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