

**THE
DYNAMICS
OF
AUTOMATIC
CONTROL
SYSTEMS**

E. P. POPOV

Translator and Editor

A. D. BOOTH

Pergamon Press

Dynamics Of Automatic Control Systems

Robert N. Clark



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The Dynamics of Automatic Control Systems E. P. Popov, 2014-05-09 The Dynamics of Automatic Control Systems focuses on the dynamics of automatic control systems and the fundamental results of the theory of automatic control The discussion covers theoretical methods of analysis and synthesis of automatic control systems common to systems of various physical natures and designs Concrete examples of the simplest functional circuits are presented to illustrate the principal ideas in the construction of automatic control systems and the application of the theoretical methods Comprised of 19 chapters this book begins by describing different forms of automatic control systems with emphasis on open and closed loop automatic systems The reader is then introduced to transients in automatic regulation systems methods for improving the regulation process and some problems in the theory of automatic regulation Subsequent chapters deal with linearization and transformation of the differential equations of an automatic regulation system stability criteria for ordinary linear systems equations of systems with delay and with distributed parameters and equations of nonlinear automatic regulation systems The oscillations and stability of nonlinear systems are also considered This monograph will be of interest to engineers and students

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Aircraft Dynamics and Automatic Control Duane T. McRuer, Dunstan Graham, Irving Ashkenas, 2014-07-14 Aeronautical engineers concerned with the analysis of aircraft dynamics and the synthesis of aircraft flight control systems will find an indispensable tool in this analytical treatment of the subject Approaching these two fields with the conviction that an understanding of either one can illuminate the other the authors have summarized selected interconnected techniques that facilitate a high level of insight into the essence of complex systems problems These techniques are suitable for establishing nominal system designs for forecasting off nominal problems and for diagnosing the root causes of problems that almost inevitably occur in the design process A complete and self contained work the text discusses the early history of aircraft dynamics and control mathematical models of linear system elements feedback system analysis vehicle equations of motion longitudinal and lateral dynamics and elementary longitudinal and lateral feedback control The discussion concludes with such topics as the system design process inputs and system performance assessment and multi loop flight control systems Originally published in 1974 The Princeton Legacy Library uses the latest print on demand technology to again make

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Statistical Dynamics of Linear Automatic Control Systems (translated from the Russian). Solodovnikov V., 1965

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