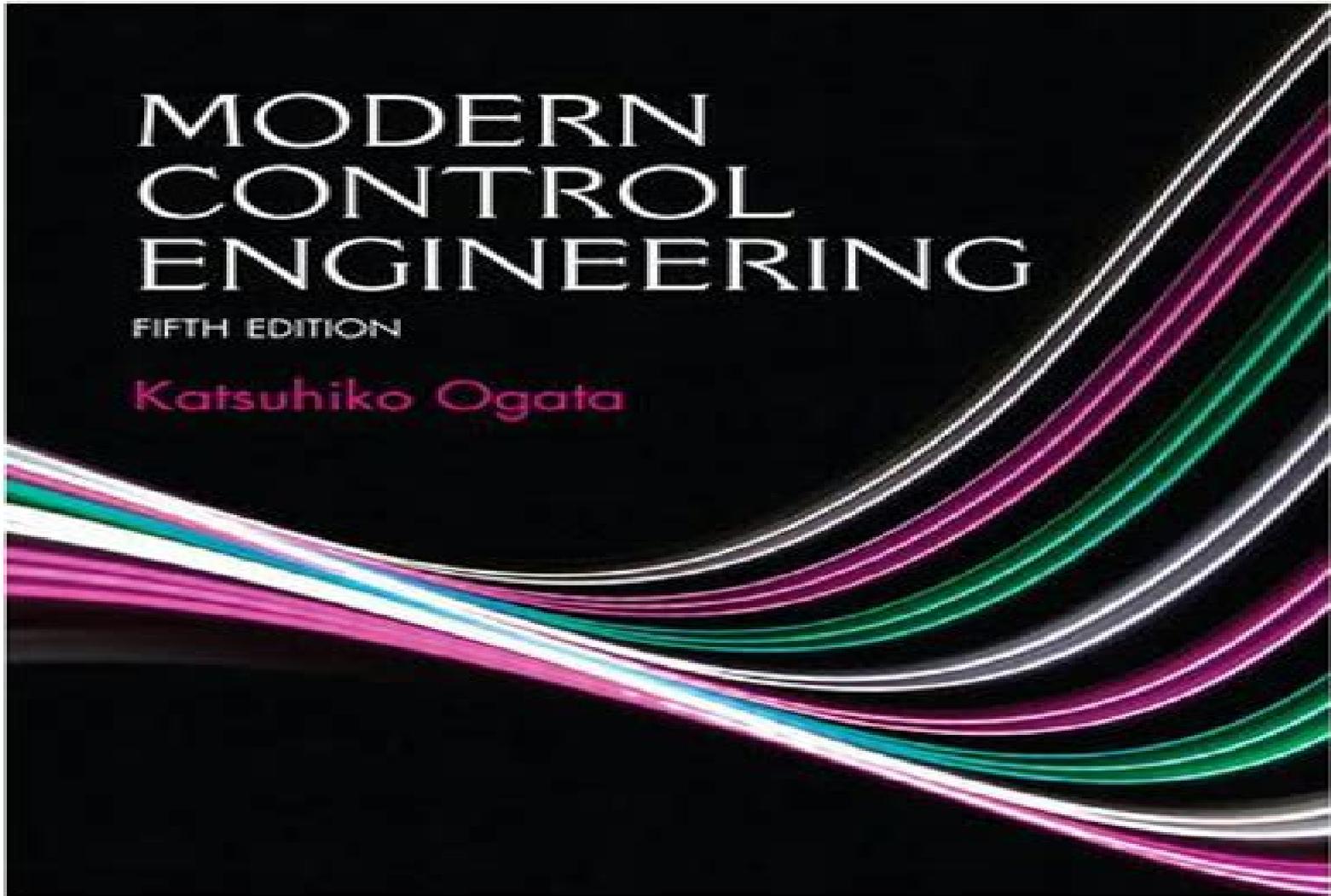


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MODERN CONTROL ENGINEERING

FIFTH EDITION

Katsuhiko Ogata



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Modern Control Systems Engineering Zoran Gajic, Zoran Gajić, M. Lelić, 1996. The book represents a modern treatment of classical control theory and application concepts. Theoretically it is based on the state space approach where the main concepts have been derived using only the knowledge from a first course in linear algebra. Practically it is based on the MATLAB package for computer aided control system design so that the presentation of the design techniques is simplified. The inclusion of MATLAB allows deeper insights into the dynamical behaviour of real physical control systems which are quite often of high dimensions. Continuous time and discrete time control systems are treated simultaneously with a slight emphasis on the continuous time systems especially in the area of controller design. Instructor's Manual 0 13 264730 3

Engineering Vibration Analysis with Application to Control Systems C. Beards, 1995-06-17. Most machines and structures are required to operate with low levels of vibration as smooth running leads to reduced stresses and fatigue and little noise. This book provides a thorough explanation of the principles and methods used to analyse the vibrations of engineering systems combined with a description of how these techniques and results can be applied to the study of control system dynamics. Numerous worked examples are included as well as problems with worked solutions and particular attention is paid to the mathematical modelling of dynamic systems and the derivation of the equations of motion. All engineers practising and student should have a good understanding of the methods of analysis available for predicting the vibration response of a system and how it can be modified to produce acceptable results. This text provides an invaluable insight into both

Modern Control Engineering Katsuhiko Ogata, 2010. Mathematical modeling of control systems. Mathematical modeling of mechanical systems and electrical systems. Mathematical modeling of fluid systems and thermal systems.

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