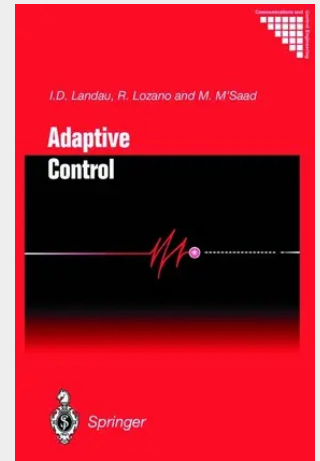


Adaptive Control

Adaptive Control provides techniques for automatic adjustment in real time of controller parameters in order to achieve or to maintain a desired level for the performance of control systems when the dynamic parameters of the process are unknown and/or vary in time. These techniques have as a main feature the ability to extract significant information from real data in order to tune the controller and they feature a mechanism for adjusting parameters (of a plant model or of a controller). While the history of Adaptive Control is long, significant progress in understanding and applying Adaptive Control began in the early seventies. The growing availability of digital computers have also contributed to the development of the field. The earlier applications in the seventies and beginning of the eighties, provided important feedback for the development of the field. Theoretical developments allowed a number of basic problems to be solved. The aim of this book is to provide a coherent and comprehensive treatment of the field. The presentation takes the reader from the basic problem formulation to the analytical solutions whose practical significance is illustrated by applications.

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