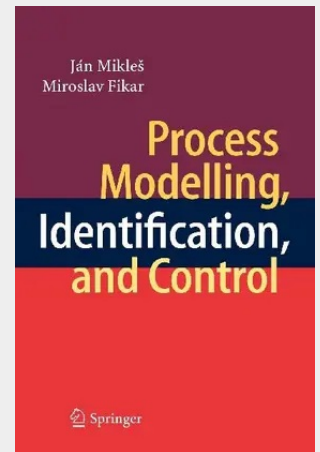


## Process Modelling, Identification, and Control

Control and automation in its broadest sense plays a fundamental role in process industries. Control assures stability of technologies, disturbance - attenuation, safety of equipment and environment as well as optimal process operation from economic point of view. This book intends to present modern automatic control methods and their applications in process control in process industries. The processes studied mainly involve mass and heat transfer processes and chemical reactors. It is assumed that the reader has already a basic knowledge about controlled processes and about differential and integral calculus as well as about matrix algebra. Automatic control problems involve mathematics more than it is usual in other engineering disciplines. The book treats problems in a similar way as it is in mathematics. The problem is formulated at first, then the theorem is stated. Only necessary conditions are usually proved and sufficiency is left aside as it follows from the physical nature of the problem solved. This helps to follow the engineering character of problems. The intended audience of this book includes graduate students but can also be of interest to practising engineers or applied scientists.

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