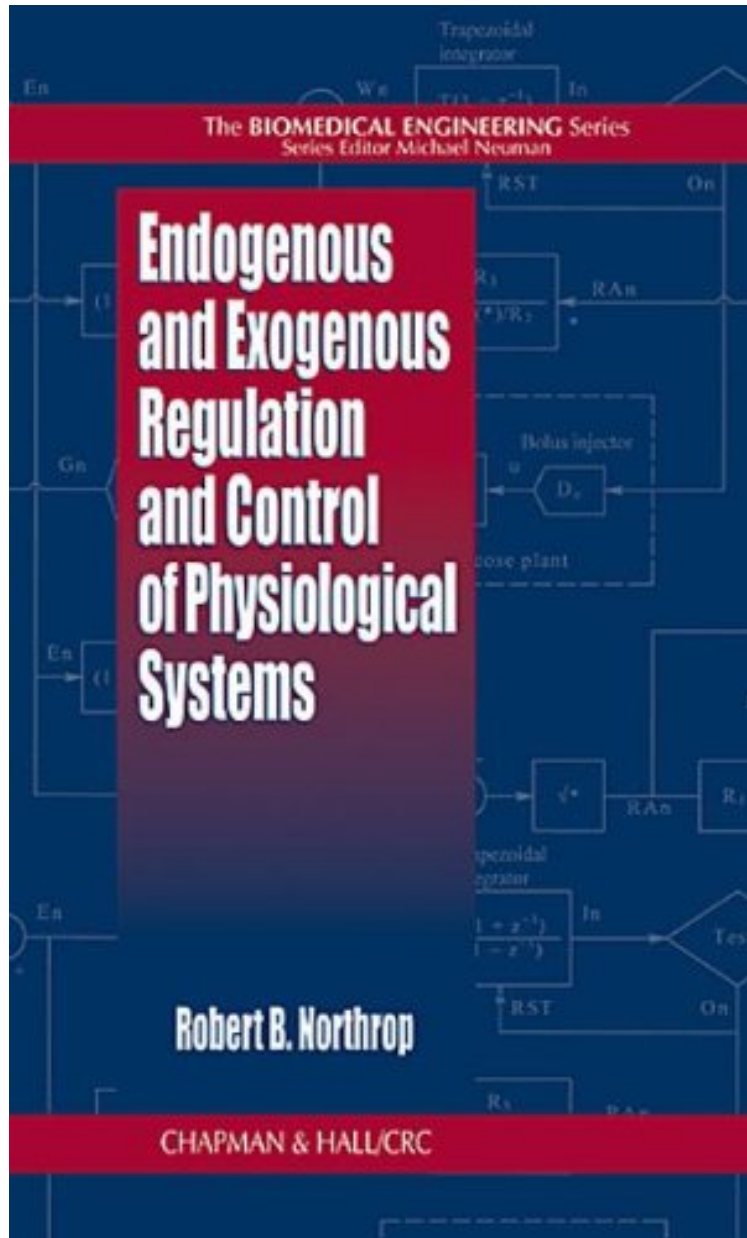


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# Endogenous and Exogenous Regulation and Control of Physiological Systems (Biomedical Engineering)

Robert B. Northrop

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## Endogenous and Exogenous Regulation and Control of Physiological Systems (Biomedical Engineering):

From a biomedical engineering perspective, this book takes an analytic, quantitative approach to describing the basic components of physiological regulators and control systems (PRCs). In *Endogenous and Exogenous Regulation and Control of Physiological Systems*, the author provides grounding in the classical methods of designing linear and nonlinear systems. He also offers state-of-the-art material on the potential of PRCs to treat immune system ailments, most notably AIDS and cancer. The book focuses on certain "wet" physiological regulators, such as those using endocrine hormones as parametric control substances. *Endogenous and Exogenous Regulation and Control of Physiological Systems* includes simulations that illustrate model validations and the putative control of cancer and HIV proliferation. It explores novel, untried immunotherapies on the cutting-edge of PRC treatment and explores the latest technologies.