



Functional Analysis and Linear Control Theory (Dover Books on Engineering)

J. R. Leigh

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Functional analysis provides a concise conceptual framework for linear control theory. This self-contained text, geared toward engineering students, demonstrates the subject's unity. It features a wide range of powerful theorems that illustrate inner product spaces, instability, controllability, and observability. It also discusses minimum norm and time control as well as distributed systems.

The first chapter offers a brief survey of basic mathematics, followed by chapters that contain most of the mathematics needed later in the book. Subsequent chapters establish axioms for linear dynamic systems, linking the axiomatic description to the state space description. They also consider important structural properties of a given system, the formulation of optimization problems, issues of existence and uniqueness, and the characterization of optimal controls. The final chapter returns to some of the concepts and methods discussed earlier, extending the applications of finite dimensional systems to distributed parameter systems. A comprehensive set of references concludes the text.

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