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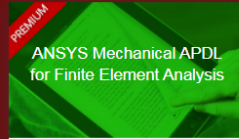
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Chapter 1

Introduction

Chapter Points

- A brief historical review of contributions to Active Disturbance Rejection Control (ADRC) putting in perspective the utilization of differential flatness as a fundamental tool to systematize and substantially facilitate, in planning and design issues, nonlinear control problems.
- The similarities and differences with recent trends in automatic control, such as Model-Free Control, Intelligent PID, and other fruitful areas, is also examined with the desire to stimulate future interactions and cross fertilization of ideas among researchers and practitioners in the unexplored areas of the diverse disciplines that have nonempty intersections with ADRC.
- This introduction contains a brief description of the contents of each one of the chapters constituting this book.

1.1 A BRIEF HISTORICAL PERSPECTIVE ON ACTIVE DISTURBANCE REJECTION CONTROL

Active Disturbance Rejection Control has been studied since the 19th century. The main idea is to simplify the plant description so as to group all disturbances, foreign and internal, and all unknown or ignored quantities and expressions into a single disturbance term and proceed to estimate the effects of this disturbance, in some accurate manner, and devise the means to cancel its effects, using the gathered estimate as part of the feedback control action. The method is simple, elegant, and efficient in a vast number of situations. The disturbance is, generally speaking, unstructured, i.e., it may depend on internal variables of the system in an either unknown or an ignored manner, or else, it may also depend on external phenomena affecting the system. In any case, disturbances are assumed to be uncertain, unknown, unpredictable, or unmodeled. As stated, we distinguish



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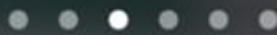
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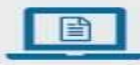


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