

Application of Dimensional Analysis in Systems Modelling and Control Design (Control Engineering)



Dimensional analysis is an engineering tool that is widely applied to numerous engineering problems, but has only recently been applied to control theory. Application of Dimensional Analysis in Systems Modelling and Control Design aims to solve control problems such as identification and model reduction, robust control, adaptive control and PID control. This new book introduces the fundamentals of dimensional analysis to both control engineers and theorists with examples of practical applicability to industrial control problems. By adopting control theory research, the author describes how to exploit the benefits that dimensional analysis can offer to control theoretic and practical problems. Topics include: dimensional analysis and dimensional similarity, dynamical systems dimensionless, representation, dimensionless systems identification and model order reduction, homogeneity of PID tuning rules, dimensionless PID tuning rules comparison, dimensional analysis control fundamentals, control of dimensionally similar systems, robust control, adaptive control in the presence of input saturation and two time scales control. Application of Dimensional Analysis in Systems Modelling and Control Design is an essential introduction to this powerful technique for control engineers and theorists in fields as diverse as mechanical, chemical, electrical and electronic engineering.

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