



The Boxes Methodology: Black Box Dynamic Control

By David W. Russell

Springer. Hardcover. Condition: New. 226 pages. Dimensions: 9.2in. x 6.2in. x 0.8in. Robust control mechanisms customarily require knowledge of the systems describing equations which may be of the high order differential type. In order to produce these equations, mathematical models can often be derived and correlated with measured dynamic behavior. There are two flaws in this approach one is the level of inexactness introduced by linearizations and the other when no model is apparent. Several years ago a new genre of control systems came to light that are much less dependent on differential models such as fuzzy logic and genetic algorithms. Both of these soft computing solutions require quite considerable a priori system knowledge to create a control scheme and sometimes complicated training program before they can be implemented in a real world dynamic system. Michie and Chambers BOXES methodology created a black box system that was designed to control a mechanically unstable system with very little a priori system knowledge, linearization or approximation. All the method needed was some notion of maximum and minimum values for the state variables and a set of boundaries that divided each variable into an integer state number. The BOXES Methodology applies the method to...

DOWNLOAD



READ ONLINE

[4.25 MB]

Reviews

A brand new eBook with a brand new standpoint. It can be rally fascinating throgh reading through time. I am happy to let you know that this is the greatest ebook i have go through within my very own daily life and can be he best book for at any time.

-- **Leanne Cremin**

A must buy book if you need to adding benefit. It is rally intriguing throgh reading time period. I am pleased to tell you that here is the very best book i actually have study in my very own lifestyle and may be he finest ebook for at any time.

-- **Ms. Lora West Jr.**