

State Space And Multivariable Theory Studies In Dynamical Systems

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[State-space and multivariable theory / H. H. Rosenbrock.](#) ISBN: 0177810025 Author: Rosenbrock, Howard Harry, 1920-2010 viaf Publisher: London : Nelson, 1970. Description: IX, 257 p. : illus. ; 24 cm. Series: Studies in dynamical systems Bibliography: Bibliography: p. 252-254. Dewey: 629.8/312 Subject: Systems engineering. (source)lcsh Control theory. (source)lcsh

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This book has arisen from efforts over many years to find simple and powerful methods for designing industrial control systems. Experience has show that the classical transfer-function methods were very suitable for isolated loops, but failed in the multivariable situation. The never state-space methods at first promised success, but came in the end to seem disappointing.

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Fall 2010 16.30/31 5-6 Creating State-Space Models • Most easily created from Nth order differential equations that describe the dynamics • This was the case done before. • Only issue is which set of states to use - there are many choices.

16.30.Topic 5- Introduction to state-space models

[State-space and multivariable theory: Author\(s\)](#) Rosenbrock, Howard Harry: Publication London : Nelson, 1970. - 265 p. Series (Studies in dynamical systems) Subject code 517; 621-5; 62.01: Subject category Mathematical Physics and Mathematics

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In control engineering, a state-space representation is a mathematical model of a physical system as a set of input, output and state variables related by first-order differential equations or difference equations. State variables are variables whose values evolve over time in a way that depends on the values they have at any given time and on the externally imposed values of input variables.

[State-space representation - Wikipedia](#)

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In state-determined systems, the state variables may always be taken as the outputs of integrator blocks. A system of order n has n integrators in its block diagram.