Stability analysis for linear repetitive processes

Springer-Verlag - The Influence of Boundary Conditions on The Stability of Repetitive Processes Modelled as 2D Linear Systems

Description: -
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Wrestling -- Juvenile literature
Linear systems.
Process control.
Automatic control.Stability analysis for linear repetitive processes
-
175
Lecture notes in control and information sciences ;Stability analysis for linear repetitive processes
Notes: Includes bibliographical references (p. 194-197).
This edition was published in 1992

Tags: #PI #control #of #discrete #linear #repetitive #processes

Stability Analysis for Linear Repetitive Processes by Eric Rogers, David H. Owens, Paperback

Consequently, the relaxation quality of stability analysis is improved and novel global asymptotic stability condition of the uncertain Roesser-type 2-D state-space digital filter is derived with less conservatism than the existing one. On the stability and the stabilization of linear discrete repetitive processes. The integer M is termed the memory length and such processes are simply termed non-unit memory.

PI control of discrete linear repetitive processes

Linear Algebra Applications, 428, 324—381. Finally, an illustrative example is given to show the effectiveness of the proposed results. Strict system equivalence of 2D linear discrete state space models.

Stability Analysis for Linear Repetitive Processes

Using previously published work as a basis, this monograph presents a rigorous control theory, and associates tests, for repetitive processes with linear dynamics and a constant pass length. The LMI solver works with floating-point numbers but the entries of the matrices exposed here can be considered as exact rational numbers since we check the results by performing an a posteriori stability analysis with the algorithms proposed in Bouzidi et al. The work reported in this monograph was undertaken during periods when one or both of the authors were on the staff of The University of Sheffield, The Queen's University of Belfast and The University of Strathclyde.

PI control of discrete linear repetitive processes

Finally, we must thank Miss Yvonne Flemming for typing the final manuscript. On strict system equivalence for multidimensional systems.

On the stability and the stabilization of linear discrete repetitive processes

The text is aimed at researchers in the area of control and systems theory and should also be of interest to those working in the related area of signal and image processing. As the degree of the Lyapunov function increases, the conservatism of the obtained stabilization conditions is

gradually reduced. Multidimensional linear iterative circuits—General properties.

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