

Positive Linear Systems Theory And Applications

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Positive linear systems : theory and applications ...

A linear dynamical system is called positive if its flow maps the non-negative orthant to itself. More precisely, it maps the set of vectors with zero sign variations to itself. A linear dynamical...

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DEFINITION 1 (externally positive linear system) A linear system (A, b, cT) is said to be externally positive if and only if its forced output (i.e., the output corresponding to a zero initial state) is nonnegative for every nonnegative input function.

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One of the most often-encountered systems in nearly all areas of science and technology, positive linear systems is a specific but remarkable and fascinating class. Renowned scientists Lorenzo Farina and Sergio Rinaldi introduce readers to the world of positive linear systems in their rigorous but highly accessible book, rich in applications, examples, and figures.

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The two appendices treat linear algebra and matrix theory, and linear system theory, respectively. Part 1 of the book begins with the authors' view of positive linear systems in the Introduction. Then a positive linear system is defined as a system whose state as well as output are nonnegative provided initial state and input are nonnegative.

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A complete study on an important class of linear dynamical systems—positive linear systems One of the most often-encountered systems in nearly all areas of science and technology, positive linear systems is a specific but remarkable and fascinating class. Renowned scientists Lorenzo Farina and Sergio Rinaldi introduce readers to the world of positive linear systems in their rigorous but highly accessible book, rich.

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