

Murthy, D. N. P.

Controllability of a linear positive dynamic system. (English) [Zbl 0581.93010](#)
Int. J. Syst. Sci. 17, 49-54 (1986).

A positive dynamic system has the property that if the initial state is non-negative, then the state variable is non-negative for all future time. In this article, we study controllability of one such system with linear structure.

MSC:

93B05 Controllability
93C05 Linear systems in control theory
93C55 Discrete-time control/observation systems
15B48 Positive matrices and their generalizations; cones of matrices

Cited in **4** Reviews
Cited in **15** Documents

Keywords:

positive dynamic system; controllability; linear structure

Full Text: [DOI](#)

References:

- [1] DOI: 10.1109/TAC.1977.1101648 · Zbl 0368.93005 · doi:10.1109/TAC.1977.1101648
- [2] KALMAN R. E., *Boln Soc. mat. mex.* 5 pp 102– (1960)
- [3] KALMAN R. E., *Contrib. diff. Eqns.* 1 pp 189– (1963)
- [4] DOI: 10.1109/TSMC.1981.4308637 · Zbl 0459.93031 · doi:10.1109/TSMC.1981.4308637
- [5] DOI: 10.1109/TAC.1963.1105535 · doi:10.1109/TAC.1963.1105535

This reference list is based on information provided by the publisher or from digital mathematics libraries. Its items are heuristically matched to zbMATH identifiers and may contain data conversion errors. It attempts to reflect the references listed in the original paper as accurately as possible without claiming the completeness or perfect precision of the matching.