

Yang, Fuyu; Wilde, Richard W.

Observers for linear systems with unknown inputs. (English) Zbl 0646.93013
IEEE Trans. Autom. Control 33, No. 7, 677-681 (1988).

A direct design procedure of a full-order observer for a linear system with unknown inputs is presented, using straightforward matrix calculations. Some examples are given; in these examples a reduced-order observer is also derived. It is shown that this may restrict the rate of convergence of some state estimates.

MSC:

93B07 Observability
93B50 Synthesis problems
93C05 Linear systems in control theory

Cited in **1** Review
Cited in **38** Documents

Keywords:

direct design; full-order observer; linear system with unknown inputs; reduced-order observer; time-invariant

Full Text: [DOI](#)