

**Kurek, J. E.**

**Strong observability and strong reconstructibility of a system described by the 2-D Roesser model.** (English) [Zbl 0644.93007](#)

*Int. J. Control* 47, No. 2, 633-641 (1988).

Concepts of strong observability and strong reconstructibility for Roesser's model are introduced. Necessary and sufficient conditions for strong observability and strong reconstructibility of the model are established. Necessary and sufficient conditions for (global) observability and (causal) reconstructibility of the model are also given.

Reviewer: [T.Kaczorek](#)

**MSC:**

[93B07](#) Observability

[70G10](#) Generalized coordinates; event, impulse-energy, configuration, state, or phase space for problems in mechanics

[93C35](#) Multivariable systems, multidimensional control systems

[93C05](#) Linear systems in control theory

[93C55](#) Discrete-time control/observation systems

Cited in **3** Documents

**Keywords:**

strong observability; strong reconstructibility; Roesser's model; (global) observability; (causal) reconstructibility

**Full Text:** [DOI](#)