FAULT DETECTION AND ISOLATION USING PARITY RELATIONS

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(Received December 1996; in final form March 1997)

Abstract: The design of dynamic parity (consistency) relations, for the detection and isolation of faults, is described. Both additive and multiplicative (parametric) faults are considered. Various isolation schemes are discussed and decoupling from disturbances and certain model errors is included. Links to diagnostic observers and parameter estimation are pointed out.

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Keywords: Fault detection; fault diagnosis; parity relations; consistency relations; system matrix; parameter estimation.