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Título: Control Reconfigurations Of Dynamical Systems

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Sinopsis

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Reconfiguration, an approach for fault-tolerant control, involves changing the control structure in response to the fault. This monograph extends this idea to actuator faults and studies in detail the so-called virtual actuator approach. "Control Reconfiguration of Dynamical Systems" also introduces structural analysis as a tool for reconfiguration. Because a fault changes the structure of the system, the reconfiguration solution is sought on a structural level. Novel algorithms are presented to test for reconfigurability and to find a reconfiguration solution. A MATLAB toolbox is supplied, which contains the main algorithms and examples. The book addresses advanced engineering students, developers and researchers that have a specific interest in control reconfiguration