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*Second Edition*

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of the process The design framework is enhanced with real time data analytics to improve the performance of the DT s behavior matching with the real system or physical twin The methods of creating a DT detailed in Digital Twin Enabled Smart Control Engineering make possible the study of a system for real time controller tuning and fault detection They also facilitate life cycle analysis for multiple critical and dangerous conditions that cannot be explored in the corresponding real system or physical twin The authors show how a DT can be exploited to enable self optimizing capabilities in feedback control systems The DT framework and the control performance assessment fault diagnosis and prognosis remaining useful life analysis and self optimizing control abilities it allows are validated with both process and motion control systems and their DTs Supporting MATLAB based material for a case study and an expanded introduction to the basic elements of DTs can be accessed on an associated website This book helps university researchers from many areas of engineering to develop new tools for control design and reliability and life cycle assessment and helps practicing engineers working with robotic manufacturing and processing and mechatronic systems to maintain and develop the mechanical tools they use

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