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Digital control engineering : analysis and design / M. Sami Fadali, Antonio Visioli. Second edition. pages cm Includes bibliographical references and index. ISBN 978-0-12-394391-0

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Digital control is a branch of control theory that uses digital computers to act as system

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controllers. Depending on the requirements, a digital control system can take the form of a microcontroller to an ASIC to a standard desktop computer. Since a digital computer is a discrete system, the Laplace transform is replaced with the Z-transform. Since a digital computer has finite precision, extra care is needed to ensure the error in coefficients, analog-to-digital conversion, digital-to-analog co

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