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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 (hardback) 1. Digital control systems. I. Visioli, Antonio. II. Title. TJ223.M53F33 2013 629.809dc23 2012021488 British Library Cataloguing-in-Publication Data

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

Digital control - Wikipedia

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Digital Control System Analysis and Design

Prof. K. Melhem (Qassim University) Digital Control Systems Academic year 2014-2015 11 Other considerations in control system analysis and design • Factors affecting hardware selection ◀ motor sizing to fulfill the power requirements ◀ choice of sensors for accuracy • Design economic impact ◀ budget allocation ◀ competitive pricing

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