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8051 Microcontrollers: MCS 51 Family and Its Variants

8051 Microcontrollers: MCS 51 Family and Its Variants is designed as a comprehensive textbook for undergraduate students of engineering. It provides a detailed exposure to product development using the 8-bit microcontroller MCS 51 and its variants. Starting from the fundamentals such as introduction to the architecture of the microcontroller chip, instruction set, and commonly used I/O and interfacing concepts; the text provides a large number of assembly language programming examples for proper understanding. A wide range of design applications are provided to introduce most of the concepts required for digital system design with microcontrollers. The most popular 8-bit microcontrollers used for designing intelligent digital instruments as well as controllers for a set of varied applications have been clearly explained and illustrated.



23,50 €

21,96 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9780198063575

Medium: Buch

ISBN: 978-0-19-806357-5

Verlag: OUP India

Erscheinungstermin: 01.12.2010

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2010

Produktform: Kartoniert

Gewicht: 880 g

Seiten: 624

Format (B x H): 191 x 242 mm

