



Control Circuits in Power Electronics: Practical Issues in Design and Implementation (Hardback)

By -

Institution of Engineering and Technology, United Kingdom, 2016. Hardback. Book Condition: New. 234 x 156 mm. Language: English . Brand New Book. Control circuits are a key element in the operation and performance of power electronics converters. This book describes practical issues related to the design and implementation of these control circuits, with a focus on the presentation of the state-of-the-art control solutions, including circuit technology, design techniques, and implementation issues. Topics covered include PWM-based sliding mode control schemes for DC-DC power converters; synthetic-ripple hysteretic controllers for DC/DC converters; one-cycle controlled single phase power inverters; digital PWM control of high-frequency DC-DC switched-mode power converters; microcontroller-based electronic ballasts for high-intensity-discharge lamps; FPGA-based controllers for direct sliding mode control of PWM boost rectifiers; DSP controllers for three-phase unity-power-factor rectifiers and voltage-sourced inverters; FPGADSP controllers for DC-DC converters in renewable energy applications; topologies, modulation and control of multilevel converters; state-of-the-art intelligent gate drivers for IGBT power modules; control of integrated switched capacitor power converters; DSP-based natural frame control schemes for three-phase unity-power-factor rectifiers; dual-core DSP for control and communication in AC microgrids; and the use of computational intelligence for designing power electronics converters. Control Circuits in Power Electronics is an essential reading for...

Reviews

It is easy in read through easier to fully grasp. it had been writtern very completely and useful. I am pleased to let you know that here is the greatest book we have read during my personal life and could be he very best book for possibly.

-- Miss Marge Jerde

It is really an remarkable publication i actually have possibly study. It usually is not going to cost excessive. Its been written in an exceedingly basic way and is particularly only right after i finished reading this publication through which basically transformed me, affect the way i think.

-- Dr. Breana O'Kon