

Switchmode Power Supply Handbook

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unarguably the leading hands on guide in this rapidly expanding area of electronics

keith billings new revision of his switchmode power supply handbook brings state of the art techniques and developments to engineers at all levels offering sound working knowledge of the latest in topologies and clear step by step approaches to component decisions this handbook gives power supply designers practical solutions oriented design guidance free of unnecessarily complicated mathematical derivations and theory this thoroughly updated handbook features many new fully worked examples as well as numerous nomograms everything you need to design today s smaller faster and cooler systems turn to just about any page and you ll find cutting edge design expertise on electronic ballast power factor correction new thermal management techniques transformers chokes input filters emi control converters snubber circuits auxiliary systems and much more the most comprehensive book on power supply design available anywhere switchmode power supply handbook is the industry standard now fully updated for the 21st century

the definitive guide to switchmode power supply design fully updated covering the latest developments and techniques switchmode power supply handbook third edition is a thorough revision of the industry leading resource for power supply designers new design methods required for powering small high performance electronic devices are presented based on the authors decades of experience the book is filled with real world solutions and many nomograms and features simplified theory and mathematical analysis this comprehensive volume explains common requirements for direct operation from the ac line supply and discusses design theory and practice engineering requirements of switchmode systems and recommendations for active power factor correction are included this practical guide provides you with a working knowledge of the latest topologies along with step by step approaches to component decisions to achieve reliable and cost effective power supply designs switchmode power supply handbook third edition covers functional requirements of direct off line switchmode power supplies power components selection and transformer designs for converter circuits transformer choke and thermal design input filters rfi control snubber circuits and auxiliary systems active power factor correction system design worked examples of would components examples of fully resonant and quasi resonant systems a resonant inverter fluorescent ballast an example of high power phase shift modulated system a new mosfet resonant inverter drive scheme a single control wide range wave oscillator

outlines in technical terms the design construction and application of power sources as used in high and low voltage situations encountered by the hobbyist or engineer

this comprehensive book focuses on dc dc switching power supply circuits which are receiving attention as a key technology in green it especially in the automotive and consumer electronics industries it covers buck converters isolated converters pfc converters their modeling and analysis several control methods passive components and their

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