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$\vec{U} = \vec{Z} \times \vec{I}$, where \vec{U} and \vec{I} - voltage and current phasors, Z -

complex impedance (for resistive circuits: $u = R \times i$) Lorentz

force law, Faraday's law and Drude model. Kirchhoff's

Current Law (KCL) The sum of electric currents which flow

into any junction in an electric circuit is equal to the sum of

currents which flow out.

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electronic engineering requires a deep knowledge of all

things electrical, from mathematics to circuitry, and

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Electrical Motor - Power. $P_{3\text{-phase}} = (U I PF 1.732) / 1,000$ (7) where. $P_{3\text{-phase}}$ = electrical power 3-phase motor (kW) PF = power factor electrical motor. Electrical Motor - Amps. $I_{3\text{-phase}} = (746 P \text{ hp}) / (1.732 V \mu PF)$ (8) where. $I_{3\text{-phase}}$ = electrical current 3-phase motor (amps) PF = power factor electrical motor

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The AC wall voltage is 120V (rms). But the actual peak value is $\sqrt{2} * 120 = 169.7V$. This doubled is 339V which is very close to the values you are seeing. I would expect your 120V rms wall voltage is really more like 124V rms. This would give an actual peak voltage of $124 * \sqrt{2} = 175V$.

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The World's #1 Guide to Power Supply Design Now Updated! Recognized worldwide as the definitive guide to power supply design for over 25 years, Switching Power Supply Design has been updated to cover the latest innovations in technology, materials, and components. This Third Edition presents the basic principles of the most commonly used topologies, providing you with the essential information required to design cutting-edge power supplies. Using a tutorial, how-and-why approach, this expert resource is filled with design examples, equations, and charts. The Third Edition of Switching Power Supply Design features: Designs for many of the most useful switching power supply topologies The core principles required to solve day-to-day design problems A strong focus on the essential basics of transformer and magnetics design New to this edition: a full chapter on choke design and optimum drive conditions for modern fast IGBTs Get Everything You Need to Design a Complete Switching Power Supply: Fundamental Switching Regulators * Push-Pull and Forward Converter Topologies * Half- and Full-Bridge Converter Topologies * Flyback Converter Topologies * Current-Mode and Current-Fed Topologies * Miscellaneous Topologies * Transformer and Magnetics Design * High-Frequency Choke Design * Optimum Drive Conditions for Bipolar Power Transistors, MOSFETs, Power Transistors, and IGBTs * Drive Circuits for Magnetic Amplifiers * Postregulators * Turn-on, Turn-off Switching Losses and Low Loss Snubbers * Feedback-Loop Stabilization * Resonant Converter Waveforms * Power Factor and Power Factor Correction * High-Frequency Power Sources for Fluorescent Lamps, and Low-Input-Voltage Regulators for Laptop Computers and Portable Equipment

Unifying Electrical Engineering and Electronics Engineering is based on the Proceedings of the 2012 International

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Conference on Electrical and Electronics Engineering (ICEE 2012). This book collects the peer reviewed papers presented at the conference. The aim of the conference is to unify the two areas of Electrical and Electronics Engineering. The book examines trends and techniques in the field as well as theories and applications. The editors have chosen to include the following topics; biotechnology, power engineering, superconductivity circuits, antennas technology, system architectures and telecommunication.

Some power electronic converters are specifically designed to power equipment under a smoothed DC voltage. Therefore, the filtering part necessarily involves the use of auxiliary passive components (inductors and capacitors). This book deals with technical aspects such as classical separation between isolated and non-isolated power supplies, and soft switching through a special converter. It addresses the problem of regulating the output voltage of the switching power supplies in terms of modeling and obtaining transfer of SMPS functions. Power Electronics for Industry and Transport, Volume 3, offers a case study of an isolated flyback power which the complete design is presented: the active and passive components are sized based on the specifications initially set. Particular attention is given to the converter output capacitors and all the surrounding organs. Introducing Essential notions in power electronics from both the theoretical and technological perspectives Detailed chapters with a focus on switch-mode power supplies, another key area in which power electronics is used is in the supply of energy to a variety of electronic equipment for signal and information processing Presented from a user's perspective to enable you to apply the theory

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of power electronics to practical applications

This is a superb source of quickly accessible information on the whole area of electrical engineering and electronics. It serves as a concise and quick reference, with self-contained chapters comprising all important expressions, formulas, rules and theorems, as well as many examples and applications.

This comprehensive reference/text explains the development and principles of operation, modelling, and analysis of switch-mode power supplies (SMPS)-highlighting conversion efficiency, size, and steady state/transient regulation characteristics.;Covering the practical design techniques of SMPS,this book - reveals how to develop specific models of circuits and components for simulation and design purposes; explains both the computer simulation of the switching behaviours of dc-to-dc converters and the modelling of linear and nonlinear circuit components; deals with the modelling and simulation of the low-frequency behaviours of converters (including current-controlled converters and converters with multiple outputs) and regulators; describes computer-aided design (CAD) techniques as applied to converters and regulators; introduces the principles and design of quasi-resonant and resonant converters; provides details on SPICE, a circuit simulator package used to calculate electrical circuit behaviour.;Containing over 1000 helpful drawings, equations, and tables, this is a valuable reference for circuit design, electrical, and electronics engineers, and serves as an excellent text for upper-level undergraduate and graduate students in these disciplines.

Power electronics, which is a rapidly growing area in terms

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of research and applications, uses modern electronics technology to convert electric power from one form to another, such as ac-dc, dc-dc, dc-ac, and ac-ac with a variable output magnitude and frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, sub-way trains, motor drives, renewable energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods and some examples of their applications.

* 25% new content * Reorganized and revised into 8 sections comprising 43 chapters * Coverage of numerous applications, including uninterruptable power supplies and automotive electrical systems * New content in power generation and distribution, including solar power, fuel cells, wind turbines, and flexible transmission

Power Supply Cookbook, Second Edition provides an easy-to-follow, step-by-step design framework for a wide variety of power supplies. With this book, anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day. With the common industry design approaches presented in each section, this unique book allows the reader to design linear, switching, and quasi-resonant switching power supplies in an organized fashion. Formerly complicated design topics such as magnetics, feedback loop compensation design, and EMI/RFI control are all described in simple language and design steps. This book also details easy-to-modify design examples that provide the reader with a design template useful for creating a variety of power supplies. This newly revised edition is a practical, "start-to-finish" design reference. It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the

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information they need. Features of the new edition include updated information on the design of the output stages, selecting the controller IC, and other functions associated with power supplies, such as: switching power supply control, synchronization of the power supply to an external source, input low voltage inhibitors, loss of power signals, output voltage shut-down, major current loops, and paralleling filter capacitors. It also offers coverage of waveshaping techniques, major loss reduction techniques, snubbers, and quasi-resonant converters. Guides engineers through a step-by-step design framework for a wide variety of power supplies, many of which can be designed in less than one day Provides easy-to-understand information about often complicated topics, making power supply design a much more accessible and enjoyable process

Although they are some of the main components in the design of power electronic converters, the design of inductors and transformers is often still a trial-and-error process due to a long working-in time for these components. Inductors and Transformers for Power Electronics takes the guesswork out of the design and testing of these systems and provides a broad overview of all aspects of design. Inductors and Transformers for Power Electronics uses classical methods and numerical tools such as the finite element method to provide an overview of the basics and technological aspects of design. The authors present a fast approximation method useful in the early design as well as a more detailed analysis. They address design aspects such as the magnetic core and winding, eddy currents, insulation, thermal design, parasitic effects, and measurements. The text contains suggestions for improving designs in specific cases, models of thermal behavior with various levels of complexity, and several loss and thermal

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measurement techniques. This book offers in a single reference a concise representation of the large body of literature on the subject and supplies tools that designers desperately need to improve the accuracy and performance of their designs by eliminating trial-and-error.

The latest techniques for designing state-of-the-art power supplies, including resonant (LLC) converters Extensively revised throughout, *Switching Power Supply Design & Optimization, Second Edition*, explains how to design reliable, high-performance switching power supplies for today's cutting-edge electronics. The book covers modern topologies and converters and features new information on designing or selecting bandgap references, transformer design using detailed new design charts for proximity effects, Buck efficiency loss teardown diagrams, active reset techniques, topology morphology, and a meticulous AC-DC front-end design procedure. This updated resource contains design charts and numerical examples for comprehensive feedback loop design, including TL431, plus the world's first top-down simplified design methodology for wide-input resonant (LLC) converters. A step-by-step comparative design procedure for Forward and Flyback converters is also included in this practical guide. The new edition covers:

- Voltage references
- DC-DC converters: topologies to configurations
- Contemporary converters, composites, and related techniques
- Discontinuous conduction mode
- Comprehensive front-end design in AC-DC power conversion
- Topologies for AC-DC applications
- Tapped-inductor (autotransformer-based) converters
- Selecting inductors for DC-DC converters
- Flyback and Forward converter transformer design
- Forward and Flyback converters: step-by-step design and comparison
- PCBs and thermal management
- Closing the loop: feedback and

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stability, including TL431 Practical EMI filter design Reset techniques in Flyback and Forward converters Reliability, testing, and safety issues Unraveling and optimizing Buck converter efficiency Introduction to soft-switching and detailed LLC converter design methodology with PSpice simulations Practical circuits, design ideas, and component FAQs

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