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CONTENTS List of Case Studies and Computer-Aided Analysis xiii Preface xv Overview xxi PART 1 ELECTRIC CIRCUITS 1 Circuit Concepts 3 1.1 Electrical Quantities 4 1.2 Lumped-Circuit Elements 16 1.3 Kirchhoff's Laws 39 1.4 Meters and Measurements 47 1.5 Analogy between Electrical and Other Nonelectric Physical Systems 50 1.6 Learning Objectives 52 1.7 Practical Application: A Case Study ...

Introduction to Electrical Engineering - SVBIT

1-Two electric circuits, represented by boxes A and B, are connected as shown in Fig.1. The reference direction for the current i in the interconnection and the reference polarity for the voltage v across the interconnection are as shown in the

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Unlike books currently on the market, this book attempts to satisfy two goals: combine circuits and electronics into a single, unified treatment, and establish a strong connection with the contemporary world of digital systems. It will introduce a new way of looking not only at the treatment of circuits, but also at the treatment of introductory coursework in engineering in general. Using the concept of "abstraction," the book attempts to form a bridge between the world of physics and the world of large computer systems. In particular, it attempts to unify electrical engineering and computer science as the art of creating and exploiting successive abstractions to manage the complexity of building useful electrical systems. Computer systems are simply one type of electrical systems. +Balances circuits theory with practical digital electronics applications. +Illustrates concepts with real devices. +Supports the popular circuits and electronics course on the MIT OpenCourse Ware from which professionals worldwide study this new approach. +Written by two educators well known for their innovative teaching and research and their collaboration with industry. +Focuses on contemporary MOS technology.

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