Record Nr. UNINA9910818176103321 Autore Wang Meizhong Titolo Understandable electric circuits // Meizhong Wang Stevenage:,: Institution of Engineering and Technology,, 2010 Pubbl/distr/stampa **ISBN** 1-282-85780-0 9786612857805 1-61583-692-6 1-84919-114-X Edizione [1st ed.] Descrizione fisica 1 online resource (385 p.) Collana IET circuits, devices and systems series Understandable electric circuits THEi IET ebooks Disciplina 621.3192 Soggetti Electric circuits Electric lines Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto Contents; Preface; 1. Basic concepts of electric circuits; 2. Basic laws of electric circuits; 3. Series-parallel resistive circuits; 4. Methods of DC circuit analysis; 5. The network theorems; 6. Capacitors and inductors; 7. Transient analysis of circuits: 8. Fundamentals of AC circuits: 9. Methods of AC circuit analysis; 10. RLC circuits and resonance; 11. Mutual inductance and transformers; 12. Circuits with dependent sources; Appendix A: Greek alphabet; Appendix B: Differentiation of the phasor; Bibliography; Index Sommario/riassunto Success in the electronics field requires a substantial background in electric circuits. This unique book provides an effective introduction to the fundamentals of dc/ac circuits presenting material in a clear and easy-to-understand way. All important concepts, rules and formulas are highlighted (boxed) after the explanation and are also summarised at the end of each chapter. The laboratory manuals at the end of each chapter are convenient for doing hands-on practice and will help readers to master the circuit theory. This book is an ideal text for

university students or for any professionals