

1. Record Nr.	UNINA9910158818003321
Titolo	Metodologia de la investigacion juridica : propuestas actuales // Guillermo Lariguet (comp.)
Pubbl/distr/stampa	Cordoba : , : Editorial Brujas, , 2016
ISBN	987-591-787-7
Descrizione fisica	1 online resource (526 paginas)
Disciplina	340.307
Soggetti	Law - Research Research - Methodology Derecho Investigacion Libros electronicos.
Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910144401103321
Autore	Spence Robert <1933->
Titolo	Introductory circuits [[electronic resource] /] / Robert Spence
Pubbl/distr/stampa	Chichester, West Sussex, U.K., : John Wiley, 2008
ISBN	0-470-69446-7 0-470-69447-5
Descrizione fisica	1 online resource (256 p.)
Disciplina	621.3192 621.3815
Soggetti	Electronic circuits Electric circuits
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introductory Circuits; Contents; About the Author; Preface; 1 The Design Process; 2 Electronic Circuits; 2.1 Voltage and Current; 2.2 Power; 2.3 Circuit Diagrams; Overview: DC Circuits; 3 Circuit Laws and Equivalences; 3.1 Components; 3.2 Interconnections; 3.3 Equivalence; 3.4 Simple Circuit Analysis; 3.5 Problems; 4 Circuit Analysis; 4.1 Nodal Analysis; 4.2 Superposition; 4.3 The venin Equivalent Circuit; 4.4 Norton Equivalent Circuit; 4.5 Problems; 5 Controlled Sources and Nonlinear Components; 5.1 Voltage-controlled Current Source; 5.2 Analysis of Circuits Containing VCCSs 5.3 Nonlinear Components 5.4 Problems; Overview: Operational Amplifiers; 6 The Operational Amplifier; 6.1 Properties of the Operational Amplifier; 6.2 Large-signal Operation; 6.3 Problems; 7 Linear Operation of the Opamp; 7.1 Virtual Short-circuit; 7.2 The Inverter; 7.3 Noninverting Connection; 7.4 Other Opamp Circuits Operating in the Linear Region; 7.5 Problems; 8 Mixed and Dynamic Opamp Circuits; 8.1 The Capacitor; 8.2 The Integrator; 8.3 Dynamic Opamp Circuits; 8.4 Problems; Overview: AC Circuits; 9 AC Circuits and Phasor Diagrams; 9.1 Reactive Components; 9.2 The Phasor Diagram 9.3 Constructing a Phasor Diagram 9.4 Problems; 10 Complex Currents and Voltages; 10.1 Euler's Theorem; 10.2 Component Relations; 10.3 Interconnection; 10.4 AC Circuit Analysis; 10.5 Observations; 10.6

Problems; 11 Frequency Domain Behaviour; 11.1 Asymptotic Behaviour; 11.2 Extreme Frequencies; 11.3 Opamp Limitations; 11.4 Problems; Overview: The Analysis of Change; 12 Change Behaviour; 12.1 Voltage Stabilization; 12.2 The Analysis of Change; 12.3 Problems; 13 Small-signal Analysis; 13.1 The Extension of Change Analysis; 13.2 The Calculation of Incremental Resistance; 13.3 Problems
Appendix: Answers to Problems
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Sommario/riassunto

Compact but comprehensive, this textbook presents the essential concepts of electronic circuit theory. As well as covering classical linear theory involving resistance, capacitance and inductance it treats practical nonlinear circuits containing components such as operational amplifiers, Zener diodes and exponential diodes. The book's straightforward approach highlights the similarity between the equations describing direct current (DC), alternating current (AC) and small-signal nonlinear behaviour, thus making the analysis of these circuits easier to comprehend. Introductory Circuits</p>
