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| Titolo | The designer's guide to SPICE and Spectre [[electronic resource] /] / by Kenneth S. Kundert ; [with foreword by Paul Gray] |
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| Descrizione fisica | 1 online resource (401 p.) |
| Collana | The Designer's Guide Book Series |
| Disciplina | 621.3815/01/1353 |
| Soggetti | Electronic circuits - Computer simulation |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references (p. [367]-370) and index. |
| Nota di contenuto | Circuit Simulation -- DC Analysis -- AC Analyses -- Transient Analysis -- Fourier Analysis. |
| Sommario/riassunto | Engineering productivity in integrated circuit product design and development today is limited largely by the effectiveness of the CAD tools used. For those domains of product design that are highly dependent on transistor-level circuit design and optimization, such as high-speed logic and memory, mixed-signal analog-digital interfaces, RF functions, power integrated circuits, and so forth, circuit simulation is perhaps the single most important tool. As the complexity and performance of integrated electronic systems has increased with scaling of technology feature size, the capabilities and sophistication of the underlying circuit simulation tools have correspondingly increased. The absolute size of circuits requiring transistor-level simulation has increased dramatically, creating not only problems of computing power resources but also problems of task organization, complexity management, output representation, initial condition setup, and so forth. Also, as circuits of more complexity and mixed types of functionality are attacked with simulation, the spread between time constants or event time scales within the circuit has tended to become wider, requiring new strategies in simulators to deal with large time constant spreads. |