# MINNIE AND HSPICE FOR ANALOGUE CIRCUIT SIMULATION

Derek C. Barker



# **Minnie And Hspice For Analogue Circuit Simulation**

SJ Ball

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MINNIE and HSpice for Analogue Circuit Simulation D. C. Barker, 2012-12-06 After many years of teaching circuit theory and analogue electronic circuits the author believes that for most students the main path to obtaining a good understanding of the principles involved as measured by their ability to apply them in a correct and intelligent manner is through problem solving and design exercises In an ideal world the student would be able to construct the circuit being analysed or designed and so directly test the calculated or pre dicted results Indeed experience leads to the conclusion that typical students like to see their own circuits perform as intended with a con sequent increase in motivation At present however time and facility constraints mean that most of this work is of the pencil and paper variety students having few opportunities to see the consequences of their efforts in a practical situation At best they have to accept sample solutions or simply num erical answers This path can seem tedious to all but the most motivated of students so an alternative which can provide many of the benefits of direct circuit testing within the time and resources available is of im mediate interest This is where the MINNIE and HSpice simulation package can assist the undergraduate teaching activity VLSI Circuit Simulation and Optimization V. Litovski, Mark Zwolinski, 1996-12-31 Circuit simulation has become an essential tool in circuit design and without it s aid analogue and mixed signal IC design would be impossible However the applicability and limitations of circuit simulators have not been generally well understood and this book now provides a clear and easy to follow explanation of their function The material covered includes the algorithms used in circuit simulation and the numerical techniques needed for linear and non linear DC analysis transient analysis and AC analysis The book goes on to explain the numeric methods to include sensitivity and tolerance analysis and optimisation of component values for circuit design The final part deals with logic simulation and mixed signal simulation algorithms. There are comprehensive and detailed descriptions of the numerical methods and the material is presented in a way that provides for the needs of both experienced engineers who wish to extend their knowledge of current tools and techniques and of advanced students and researchers who wish to develop new simulators

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