

Abstracts

An Introduction to MHDL

D.L. Barton and D.D. Dunlop. "An Introduction to MHDL." 1993 MTT-S International Microwave Symposium Digest 93.3 (1993 Vol. III [MWSYM]): 1487-1490.

The MIMIC Hardware Description Language (MHDL) was recently developed under the sponsorship of DARPA and is intended for use in describing microwave and analog hardware. We describe how MHDL addresses the key issues of (1) the representation of hardware hierarchical structure and support for multiple views and alternatives, (2) signal representation, including a mathematically-rigorous signal concept that allows a variety of signal formats such as time-based and frequency-based signals, (3) general capabilities for describing device behavior at multiple levels of abstraction, (4) compatibility with VHDL and support for mixed-mode simulation of hybrid circuits, and, (5) support for concurrent engineering and performance modeling in the development of microwave systems.

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