Multigrid Methods for Semiconductor Device Simulation

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Iterative Methods in Semiconductor Device Simulation - IEEE Xplore Multigrid Methods for Semiconductor Device Simulation [J. Molenaar] on . *FREE* shipping on qualifying offers. **Algebraic Multigrid for Industrial Semiconductor Device Simulation** Cite this paper as: Gartner K., Schenk O., Fichtner W. (1999) Parallel Multigrid Methods for the Continuity Equations in Semiconductor Device Simulation. **Transputer Applications and Systems 94: Proceedings of the 1994 - Google Books Result** Predictor-corrector continuation methods for characterizing the voltage-current (V, I) behavior of semiconductor devices are presented. Numerical simulations of **Multigrid Methods III - Google Books Result An Efficient Multigrid Poisson Solver for Device Simulations** A Integrating multigrid relaxation into a AS multigrid employing ILU/SIP smoothing: device simulation semiconductor devices seminar on multiple grid methods **none** This paper presents a parallel multigrid algorithm for solving semiconductor device semiconductor device simulation using a Monte Carlo method in [7] and **Multigrid Methods II: Proceedings of the 2nd European Conference - Google Books Result** A nonlinear multigrid method for one-dimensional semiconductor device simulation: results for the diode. P.W. HEMKER. Centrum uoor Wiskunde en Informatica **A MULTIGRID PRECONDITIONER FOR THE SEMICONDUCTOR** Iterative Methods in Semiconductor Device Simulation. CONOR S. RAFFERTY Using the PISCES-II device simulator as a vehicle, incomplete factori zation and operator quite differently from a multigrid code such as [2]. Re finement is **Multigrid Methods - Google Books Result** Beyond parallel line relaxation methods, parallel block ILU smoothers (for 2D 2.12 Standard Multigrid for Semiconductor Device Simulation In this section it is **Locally adaptive multigrid method for 3D numerical investigation of** vsr 1993. Multigrid for semiconductor device simulation: . by using a vertex-centered multi grid method with straight

injection for the restriction of the residual. **Quasi-Newton and Multigrid Methods for Semiconductor Device** This paper examines the application of the multigrid method to the steady state semiconductor equations in one dimension. A number of attempts reported in the **A PARALLEL MULTIGRID SOLVER FOR SEMICONDUCTOR** adapt the multigrid method to the drift-di usion equations, interpolation, projection, and algorithm inside a semiconductor device modeling code, DANCIR [7]. **3D Parallel Monte Carlo Simulation of GaAs MESFETs ABSTRACT** ONE~DIMENSIONAL SEMICONDUCTOR DEVICE SIMULATION. In this paper we give a brief description of a multigrid method for the solution of. **An adaptive multigrid approach for the solution of the 2D** Title: Quasi-Newton and Multigrid Methods for Semiconductor Device Simulation. Author(s):, Slamet, Sumantri. Department / Program **Semiconductor Device Simulation SIAM Journal on Scientific and** R. E. Bank, D. J. Rose and W. Fichtner, Numerical Methods for Semiconductor Device Simulation, SIAM J. Sci. Stat. Comp. 4, 416435 (1983) and IEEE Trans. **Multigrid Methods for Process Simulation - Google Books Result** An adaptive multigrid method is presented for the solution of the two-dimensional steady state Van Roosbroeck equations for semiconductor device modeling. **Continuation methods in semiconductor device simulation** It is shown that this framework allows to construct robust and fast algebraic multigrid approaches even for cases, where iterative one-level solvers of the type **Continuation methods in semiconductor device simulation** A nonlinear multigrid method for one-dimensional semiconductor device simulation. In Guo Ben-yu, J.J.H. Miller, and Shi Zhong-ci, editors, BAIL V, Proceedings **The efficient simulation of point defects diffusion by an adaptive** Numerical Methods for Semiconductor Device Simulation (1992) Nonlinear Multigrid Applied to a One-Dimensional Stationary Semiconductor Model. **a multigrid approach for one~dimensional semiconductor device** (1995) Adaptive multigrid applied to a bipolar transistor problem. Applied (1983) Numerical Methods for Semiconductor Device Simulation. SIAM Journal on **Using Multigrid for Semiconductor Device Simulation in 1-D** semiconductor process and device simulation have been investigated, and framework allows to construct robust and fast algebraic multigrid approaches even. **Parallel Multigrid Methods for the Continuity Equations in** used in the analysis of realistic semiconductor devices based on particle simulators. Our robust implementation of the multigrid method is faster by one or two **Numerical Methods for Semiconductor Device Simulation SIAM A nonlinear multigrid method for one-dimensional semiconductor** The authors present recent developments in the multigrid semiconductor device simulation program COGITO. A locally adaptive refinement strategy has been **Multigrid Methods for Semiconductor Device Simulation: J. Molenaar** Fast. Simulation. for. Semiconductor. Devices. Using. Multigrid. Method. On. a. Transputer-Based. Parallel. Machine. Xiang HAN, David M BARRY, and Michael J **A nonlinear multigrid method - CWI Amsterdam** As semiconductor device dimensions continue to shrink in ultra-large scale algorithm has been reported by Saraniti et al. using multigrid methods 4 . in which [5]: R.E. Bank, H.D. MittelmannContinuation and multi-grid for nonlinear [16]: W. Fichtner, D.J. Rose, R.E. BankSemiconductor device simulationIEEE Trans. **A nonlinear multigrid method for one-dimensional semiconductor** Numerical device simulators have been used to analyze semiconductor devices for a number of method tailored to device simulation is presented in Section 3. [5] R.E. Bank and H.D. Mittelmann, Continuation and multi-grid for nonlinear **Three Dimensional Monte Carlo Device Simulation with Parallel** This paper studies a multigrid method for the solution of the semiconductor device simulation problem. Although the real impact of multigrid will always be in two