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expert guide to power electronics and their applications. The book examines the foundations of power electronics power semiconductor devices and power converters before reviewing a constellation of modern applications Comprehensively updated throughout this new edition features new sections addressing current practices for renewable energy storage transmission integration and operation as well as smart grid security intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles. This handbook is aimed at practitioners and researchers undertaking projects requiring specialist design analysis installation commissioning and maintenance services Provides a fully comprehensive work addressing each aspect of power electronics in painstaking depth Delivers a methodical technical presentation in over 1500 pages Includes 50 contributions prepared by leading experts Offers practical support and quidance with detailed examples and applications for lab and field experimentation Includes new technical sections on smart grid security and intelligent energy artificial intelligence and machine learning applications applied to power electronics and autonomous and electric vehicles Features new chapter level templates and a narrative progression to facilitate understanding Nanoelectronic Coupled Problems Solutions E. Jan W. ter Maten, Hans-Georg Brachtendorf, Roland Pulch, Wim Schoenmaker, Herbert De Gersem, 2019-11-06 Designs in nanoelectronics often lead to challenging simulation problems and include strong feedback couplings Industry demands provisions for variability in order to guarantee quality and yield It also requires the incorporation of higher abstraction levels to allow for system simulation in order to shorten the design cycles while at the same time preserving accuracy. The methods developed here promote a methodology for circuit and system level modelling and simulation based on best practice rules which are used to deal with coupled electromagnetic field circuit heat problems as well as coupled electro thermal stress problems that emerge in nanoelectronic designs This book covers 1 advanced monolithic multirate co simulation techniques which are combined with envelope wavelet approaches to create efficient and robust simulation techniques for strongly coupled systems that exploit the different dynamics of sub systems within multiphysics problems and which allow designers to predict reliability and ageing 2 new generalized techniques in Uncertainty Quantification UQ for coupled problems to include a variability capability such that robust design and optimization worst case analysis and yield estimation with tiny failure probabilities are possible including large deviations like 6 sigma 3 enhanced sparse parametric Model Order Reduction techniques with a posteriori error estimation for coupled problems and for UQ to reduce the complexity of the sub systems while ensuring that the operational and coupling parameters can still be varied and that the reduced models offer higher abstraction levels that can be efficiently simulated All the new algorithms produced were implemented transferred and tested by the EDA vendor MAGWEL Validation was conducted on industrial designs provided by end users from the semiconductor industry who shared their feedback contributed to the measurements and supplied both material data and process data In closing a thorough comparison to measurements on real devices was made in order to demonstrate the algorithms industrial applicability

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