

# FREE THE LTSPICE IV SIMULATOR: MANUAL, METHODS AND APPLICATIONS PDF



Gilles Brocard | 744 pages | 01 Jul 2013 | Swiridoff Verlag | 9783899292589 | English | none

## **The LTSpice IV Simulator : Gilles Brocard :**

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## LTSpice\_IV\_Simulator\_Appl Handbook | Manualzz

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Cancel Save settings. Home Contact us Help Free delivery worldwide. Free delivery worldwide. Bestselling Series. Harry Potter. Popular Features. Home Learning. Notify me. Description It is an honor to write a preface for Gilles Brocard. I appreciate his work writing this book and hope you benefit from his labors. LTSpice has been fun to write. It let me implement a number of numerical methods that make LTSpice better than traditional SPICE programs: a new numerical integration method, node reduction, a native circuit element that behaves like a power MOSFET, and new time step size control to name a few.

The biggest recent advance in LTSpice was when The LTSpice IV Simulator: Manual went multi-threaded in We found it easy to distribute the computations over multiple cores but challenging to make the simulation actually run faster. The problem was that the LTSpice object code had been so optimized much had already been implemented in optimized assembly language that it didnt take very many microseconds per timestep and that was a short time compared to how well one can synchronize multiple threads.

That's when we developed a means to dynamically adjust each threads cache size to stochastic cool the threads to keep the work load spread evenly. Another important technique introduced at that time was code generation that generates an assembly listing optimized for your circuit. Then that code is assembled and linked by LTSpice for execution.

This self-authoring code is generated typically every few seconds during the simulation to help your circuit execute close to the theoretical flop limit of a modern CPU. That's why LTSpice IV is fast. But all this is for a purpose. LTSpice offers you the ability to rapidly prototype your designs so that you understand them better and even develop intuition. Illustrations note m

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This free and full-featured SPICE modeling software runs on PCs and includes schematic entry, great methods and applications plotting, and is very fast. The software will run on either PC or Mac. To read more and add your comments, click here.... Nice review on the book, Ken, thank

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