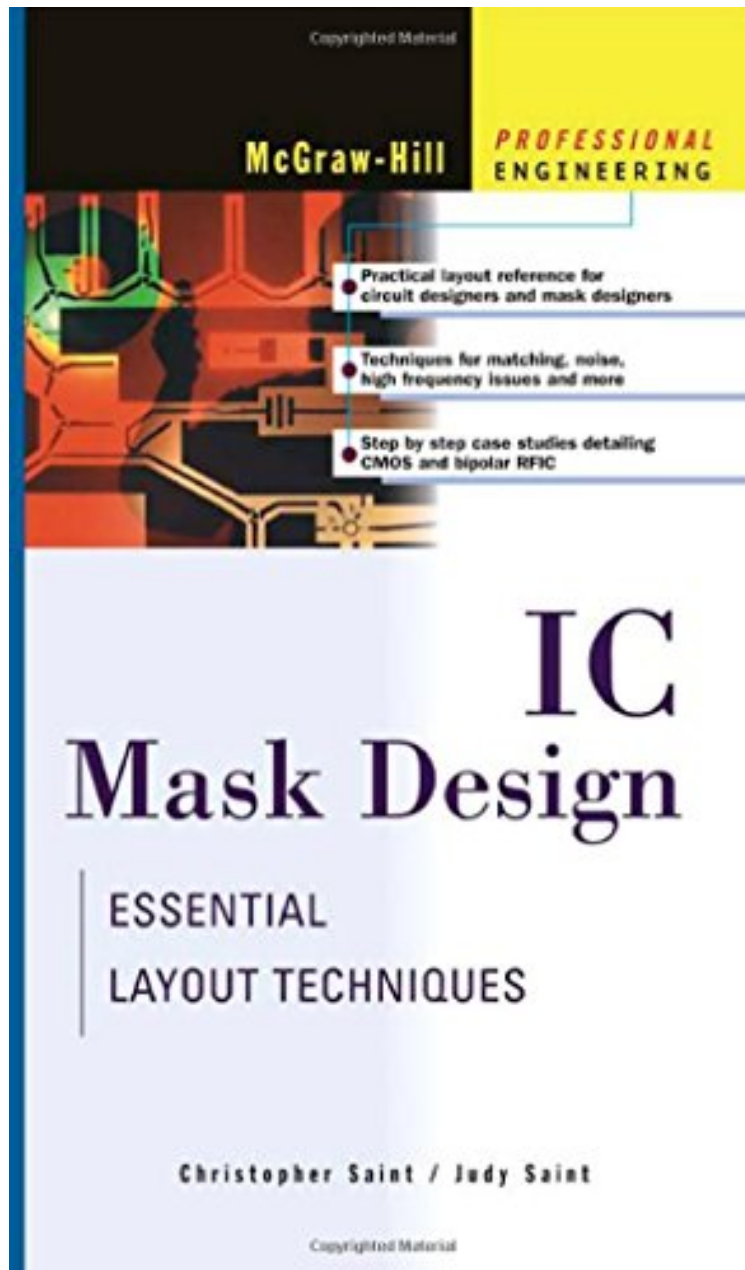


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IC Mask Design: Essential Layout Techniques

Christopher Saint, Judy Saint

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Integrated Circuit Mask Design teaches integrated circuit (IC) processes, mask design techniques, and fundamental device concepts in everyday language. It develops ideas from the ground up, building complex concepts out of simple ones, constantly reinforcing what has been taught with examples, self-tests and sidebars covering the motivation behind the material covered.

Using everyday language, the authors of this tutorial explain integrated circuit processes, mask design techniques, and fundamental device concepts. Topics include high-frequency/radio-frequency layout techniques, verification tool uses, matching and noise considerations, digital and analog layout, parasitics, floorplanning, and more. Concepts are reinforced through examples, preview points, sidebars, and self-tests. (Poptronics 2002-11-01)From the Back CoverTHE PLAIN-ENGLISH GUIDE TO LEARNING INTEGRATED CIRCUIT MASK DESIGNAn essential reference for experienced professionals and beginners alike.Now you dont need an engineering background to master basic integrated circuit mask design! In this straightforward, jargon-free tutorial, co-author Chris Saint, one of IBMs top instructors, thoroughly covers everything from initial layout to final verification. Using clear, everyday language even a beginner can understand, this essential primer, rich in practical techniques, covers:* Integrated circuit processes * High frequency/radio frequency layout techniques * Fundamental device concepts* Verification tool use and samples* Matching and noise considerations* Digital and analog layout* Parasitics* Floorplanning* Packaging* Key rules of thumb throughout* Two extensive case studies that comprehensively analyze complete CMOS and bipolar layout examplesUtilizing a logical layered approach to teaching, Chris and Judy Saint present complicated concepts from the ground up, building on the simple until the complex becomes crystal clear. In order to reinforce key techniques, each chapter includes examples, self-tests, sidebars, preview points, motivation boxes, and worked study examplesas well as the authors refreshing humor. Co-written by an accomplished corporate teacher and utilizing proven teaching methods and materials, IC Mask Design is the fastest route for non-engineers to understand every phase and practical technique of IC mask design. The rules of thumb contained hereinhoned by years of experiencewill bring the mask designer a greater level of understanding than simply learning processes.About the AuthorCHRISTOPHER SAINT is currently Manager of the IBM West Coast CAD Tool and Physical Design Group. He served as lead layout engineer for the Commquest/TBM GSM, AMPS, and CDMA chipsets.JUDY SAINT is a professional writer and illustrator. They reside in Elk Grove, CA.