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Fabricating MMICs can be high cost and high risk. Because you cannot know if MMICs were fabricated to spec until the fabrication process is completed, cost can easily rise. Design is key to ensuring correct fabrication, minimizing costs, and reducing refabrication. This practical volume is filled with hands-on design techniques and rules of thumb you can use everyday to fabricate MMICs to system specification. More than 100 photos of real MMIC designs let you see how these design techniques were successfully implemented. You get in-depth information on designing amplifiers, power amplifiers, and millimeter-wave circuits. The book guides you in selecting the right type of foundry and technology—Si/GaAs or MOMET/HBT—for a specific design. It provides you with real-world insight into component modeling, circuit simulation and layout, and processing and testing. This invaluable resource gives you a unique look into day-to-day foundry practices and the economics associated with fabricating MMICs.

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Practical MMIC Design By Steve Marsh Bibliography

- Sales Rank: #3079358 in eBooks
- Published on: 2012-07-25
- Released on: 2012-07-25
- Format: Kindle eBook

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Editorial Review

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Steve Marsh is the CEO of MIDAS Consulting, Northampton, Northamptonshire, U.K. A senior member of the IEEE, he is associate editor of Transactions of the IEEE Microwave Theory and Techniques Society. He holds a Ph.D. in physics from the University of Bath.

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