

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189)

Yayi Wei, Robert L. Brainard



<u>Click here</u> if your download doesn"t start automatically

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189)

Yayi Wei, Robert L. Brainard

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) Yayi Wei, Robert L. Brainard

This book is a comprehensive guide to advanced processes and materials used in 193-nm immersion lithography (193i). It is an important text for those new to the field as well as for current practitioners who want to broaden their understanding of this latest technology. The book can be used as course material for graduate students of electrical engineering, material sciences, physics, chemistry, and microelectronics engineering and can also be used to train engineers involved in the manufacture of integrated circuits. It provides techniques for selecting critical materials (topcoats, photoresists, and antireflective coatings), and optimizing immersion processes to ensure higher performance and lower defectivity at lower cost. This book also includes sections on shrinking, trimming, and smoothing of the resist pattern to reduce feature sizes and line-edge roughness. Finally, it describes the recent development of 193i in combination with double exposure and double patterning.

Contents

- Immersion Lithography and its Challenges
- Process Steps in the Track
- Resist Leaching and Water Uptake
- Contact Angle of Water on Resist Stacks
- Topcoat and Resist for Immersion Lithography
- Immersion Defects and Defect Reduction Strategies
- Antireflection Coatings and Underlayer Technology
- Resist Shrink and Trim Processes
- Double Exposures and Double Patterning
- Line-edge Roughness of Resist Patterns
- Extendibility of 193-nm Immersion Lithography (193i+)

<u>Download</u> Advanced Processes for 193-nm Immersion Lithograph ...pdf

Read Online Advanced Processes for 193-nm Immersion Lithogra ...pdf

From reader reviews:

Richard Reardon:

What do you concentrate on book? It is just for students because they are still students or the idea for all people in the world, the actual best subject for that? Merely you can be answered for that question above. Every person has diverse personality and hobby per other. Don't to be pressured someone or something that they don't wish do that. You must know how great as well as important the book Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189). All type of book can you see on many methods. You can look for the internet methods or other social media.

Julia Hale:

This book untitled Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) to be one of several books which best seller in this year, this is because when you read this publication you can get a lot of benefit in it. You will easily to buy this kind of book in the book retail store or you can order it through online. The publisher on this book sells the e-book too. It makes you easier to read this book, as you can read this book in your Smartphone. So there is no reason to you personally to past this reserve from your list.

Walter Telford:

Reading can called mind hangout, why? Because if you find yourself reading a book specially book entitled Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) your mind will drift away trough every dimension, wandering in each aspect that maybe unknown for but surely might be your mind friends. Imaging every word written in a reserve then become one contact form conclusion and explanation that will maybe you never get ahead of. The Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) giving you a different experience more than blown away your mind but also giving you useful facts for your better life with this era. So now let us demonstrate the relaxing pattern here is your body and mind will be pleased when you are finished studying it, like winning a. Do you want to try this extraordinary paying spare time activity?

Henry Stanton:

Is it a person who having spare time then spend it whole day by watching television programs or just resting on the bed? Do you need something totally new? This Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) can be the solution, oh how comes? A fresh book you know. You are consequently out of date, spending your spare time by reading in this completely new era is common not a nerd activity. So what these ebooks have than the others? Download and Read Online Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) Yayi Wei, Robert L. Brainard #1CQTB65S4FE

Read Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard for online ebook

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard books to read online.

Online Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard ebook PDF download

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard Doc

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard Mobipocket

Advanced Processes for 193-nm Immersion Lithography (SPIE Press Monograph Vol. PM189) by Yayi Wei, Robert L. Brainard EPub