



# Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science)

*By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley*

Download now

Read Online 

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science)** By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley

This book presents a detailed summary of research on automatic layout of device-level analog circuits that was undertaken in the late 1980s and early 1990s at Carnegie Mellon University. We focus on the work behind the creation of the tools called KOAN and ANAGRAM II, which form part of the core of the CMU ACACIA analog CAD system. KOAN is a device placer for custom analog cells; ANAGRAM II a detailed area router for these analog cells. We strive to present the motivations behind the architecture of these tools, including detailed discussion of the subtle technology and circuit concerns that must be addressed in any successful analog or mixed-signal layout tool. Our approach in organizing the chapters of the book has been to present our algorithms as a series of responses to these very real and very difficult analog layout problems. Finally, we present numerous examples of results generated by our algorithms. This research was supported in part by the Semiconductor Research Corporation, by the National Science Foundation, by Harris Semiconductor, and by the International Business Machines Corporation Resident Study Program. Finally, just for the record: John Cohn was the designer of the KOAN placer; David Garrod was the designer of the ANAGRAM II router (and its predecessor, ANAGRAM I). This book was architected by all four authors, edited by John Cohn and Rob Rutenbar, and produced in finished form by John Cohn.

 [Download Analog Device-Level Layout Automation \(The Kluwer ...pdf](#)

 [Read Online Analog Device-Level Layout Automation \(The Kluwe ...pdf](#)

# Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science)

*By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley*

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science)** By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley

This book presents a detailed summary of research on automatic layout of device-level analog circuits that was undertaken in the late 1980s and early 1990s at Carnegie Mellon University. We focus on the work behind the creation of the tools called KOAN and ANAGRAM II, which form part of the core of the CMU ACACIA analog CAD system. KOAN is a device placer for custom analog cells; ANAGRAM II a detailed area router for these analog cells. We strive to present the motivations behind the architecture of these tools, including detailed discussion of the subtle technology and circuit concerns that must be addressed in any successful analog or mixed-signal layout tool. Our approach in organizing the chapters of the book has been to present our algorithms as a series of responses to these very real and very difficult analog layout problems. Finally, we present numerous examples of results generated by our algorithms. This research was supported in part by the Semiconductor Research Corporation, by the National Science Foundation, by Harris Semiconductor, and by the International Business Machines Corporation Resident Study Program. Finally, just for the record: John Cohn was the designer of the KOAN placer; David Garrod was the designer of the ANAGRAM II router (and its predecessor, ANAGRAM I). This book was architected by all four authors, edited by John Cohn and Rob Rutenbar, and produced in finished form by John Cohn.

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science)** By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley  
**Bibliography**

- Rank: #6690347 in Books
- Brand: Brand: Kluwer Academic Publishers
- Published on: 1994-01-31
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .81" w x 6.14" l, 1.50 pounds
- Binding: Hardcover
- 285 pages

 [Download Analog Device-Level Layout Automation \(The Kluwer ...pdf](#)

 [Read Online Analog Device-Level Layout Automation \(The Kluwe ...pdf](#)

**Download and Read Free Online Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley**

---

## **Editorial Review**

### **Users Review**

#### **From reader reviews:**

##### **Patricia Bush:**

The particular book Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) will bring that you the new experience of reading some sort of book. The author style to clarify the idea is very unique. Should you try to find new book to read, this book very ideal to you. The book Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) is much recommended to you to learn. You can also get the e-book from the official web site, so you can quicker to read the book.

##### **Beverly Bell:**

A lot of people always spent their particular free time to vacation or even go to the outside with them friends and family or their friend. Are you aware? Many a lot of people spent many people free time just watching TV, or even playing video games all day long. If you would like try to find a new activity that is look different you can read some sort of book. It is really fun for you. If you enjoy the book that you just read you can spent the whole day to reading a guide. The book Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) it is extremely good to read. There are a lot of people that recommended this book. These were enjoying reading this book. In the event you did not have enough space to create this book you can buy often the e-book. You can m0ore quickly to read this book from the smart phone. The price is not too expensive but this book possesses high quality.

##### **Ralph Ainsworth:**

Many people spending their time period by playing outside along with friends, fun activity along with family or just watching TV all day every day. You can have new activity to enjoy your whole day by reading a book. Ugh, do you consider reading a book will surely hard because you have to use the book everywhere? It ok you can have the e-book, having everywhere you want in your Touch screen phone. Like Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) which is keeping the e-book version. So , try out this book? Let's see.

##### **Brent Whitty:**

Many people said that they feel fed up when they reading a reserve. They are directly felt the idea when they get a half portions of the book. You can choose often the book Analog Device-Level Layout Automation

(The Kluwer International Series in Engineering and Computer Science) to make your personal reading is interesting. Your personal skill of reading skill is developing when you like reading. Try to choose very simple book to make you enjoy to study it and mingle the feeling about book and reading through especially. It is to be initial opinion for you to like to open a book and learn it. Beside that the e-book Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) can to be your brand new friend when you're truly feel alone and confuse with what must you're doing of the time.

**Download and Read Online Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley #SG4CU8R1PME**

# **Read Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley for online ebook**

Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley 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 Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley books to read online.

## **Online Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley ebook PDF download**

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley Doc**

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley Mobipocket**

**Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley EPub**

**SG4CU8R1PME: Analog Device-Level Layout Automation (The Kluwer International Series in Engineering and Computer Science) By John M. Cohn, David J. Garrod, Rob A. Rutenbar, L. Richard Carley**