



# Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection)

By Martin W. Jawitz

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### Select PCB materials for top performing boards

From weaving glass fiber mats to testing finished boards, this one-stop materials database offers the first close-up look at how to process and fabricate world-class PCBs. *Printed Circuit Board Materials Handbook* gives you a complete, hands-on working knowledge of the electrical, mechanical and physical properties of PCB raw materials - plus the expertise to transform them into a high-performance printed circuit card. Packed with over 400 how-to illustrations, this encyclopedia tool gives you the know-how to:

- Master the processes for glass fiber reinforcement, polyimide film, PET, PEN, and resins
- Work with copper foils, anodes, prepreg and laminates, aramid mats, and drill bits and routers
- Fabricate rigid and flexible printed wiring boards
- Apply the latest coating, laminating, etching, and electroplating methods
- Maximize techniques for hot air leveling, microsection analysis and electrical test
- Resolve controversial cleaning issues and CFC problems plus conduct troubleshooting and failure analysis
- Much more

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## **Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) By Martin W. Jawitz Bibliography**

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## **Editorial Review**

### **From the Back Cover**

Everything you need to know about printed circuit board fabrication--in one single source! This book covers the total PCB construction process from the first glob of glass to the finished board, giving you all the materials information you need to make your designs work. It goes into depth like no other book has before, describing how the basic raw materials are used to make various types of printed wiring boards along with their physical, mechanical, and electrical properties. Whether you're an electrical or mechanical engineer working with PCBs or a materials, processing, or manufacturing engineer, you'll find problem-solving guidelines to help you understand the materials and processes that go into making a reliably designed product. For example, design engineers who don't know the electrical properties or thickness of a material to use can turn to chapter 2 for details on properties of the material and material thickness and chapter 9 to find out how much material, prepreg, and laminate is required. Or quality engineers who need to make sure they have a good reliable product can turn to chapters 31 and 32 for details on microsection analysis and electrical tests required to ensure a good product. And process engineers who need to make sure they have a good reliable product can turn to chapters 31 and 32 for details on microsection analysis and electrical tests required to ensure a good product. And process engineers whose plating solutions are not depositing the required thickness can see chapter 25 for a full description of plating bath make-up and chemical analysis procedures. Key features of the handbook include: full start-to-finish coverage of the PCB fabrication process; expert advice on controversial cleaning issues and CFC problems; practical sections on troubleshooting and failure analysis. It's a unique single-source reference on the products and processes used in making PCBs, jam-packed with practical information to help engineers understand how their designs are affected by the materials and processes they choose--making the difference between a slow, unreliable failure and a successful design.

### **About the Author**

Martin W. Jawitz (Chatsworth, CA) has approximately 40 years in the Printed Wiring Board Industry. He is currently the senior editor of Flexible Circuits Engineering Magazine. Prior to that, Marty was employed by Jet Propulsion Labs in Pasadena, California, Litton Industries, Lockheed Electronics, and Singer Kearfott. He has published many articles in the trade press, chairs many IPC meetings, and has taught extensively in the PWB field.

## **Users Review**

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#### **Bertha Buentello:**

Reading a book tends to be new life style on this era globalization. With reading through you can get a lot of information that could give you benefit in your life. Using book everyone in this world can easily share their idea. Publications can also inspire a lot of people. A great deal of author can inspire their particular reader with their story or perhaps their experience. Not only situation that share in the books. But also they write about the data about something that you need case in point. How to get the good score toefl, or how to teach your children, there are many kinds of book which exist now. The authors nowadays always try to improve their talent in writing, they also doing some investigation before they write for their book. One of them is this Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection).

**Jewel Tarr:**

Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) can be one of your beginner books that are good idea. Most of us recommend that straight away because this e-book has good vocabulary that can increase your knowledge in language, easy to understand, bit entertaining however delivering the information. The writer giving his/her effort that will put every word into satisfaction arrangement in writing Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) but doesn't forget the main position, giving the reader the hottest along with based confirm resource information that maybe you can be certainly one of it. This great information can drawn you into fresh stage of crucial contemplating.

**Maurice Lamothe:**

In this era globalization it is important to someone to obtain information. The information will make professionals understand the condition of the world. The condition of the world makes the information quicker to share. You can find a lot of personal references to get information example: internet, classifieds, book, and soon. You can observe that now, a lot of publisher which print many kinds of book. The actual book that recommended to you personally is Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) this guide consist a lot of the information with the condition of this world now. This book was represented so why is the world has grown up. The dialect styles that writer make usage of to explain it is easy to understand. The writer made some investigation when he makes this book. Here is why this book acceptable all of you.

**Raymond Albanese:**

This Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) is completely new way for you who has intense curiosity to look for some information mainly because it relief your hunger details. Getting deeper you upon it getting knowledge more you know or you who still having little bit of digest in reading this Printed Circuit Board Materials Handbook (Electronic Packaging and Interconnection) can be the light food for you personally because the information inside this book is easy to get by means of anyone. These books develop itself in the form and that is reachable by anyone, yeah I mean in the e-book form. People who think that in reserve form make them feel drowsy even dizzy this book is the answer. So you cannot find any in reading a book especially this one. You can find what you are looking for. It should be here for a person. So , don't miss this! Just read this e-book style for your better life along with knowledge.

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