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### Printed Circuit Board Design & Manufacturing Resources

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The material used in PCB from top to bottom includes Silkscreen, Soldermask, Copper and Substrate . The last of those layers, substrate, is made of fiberglass and is also known as FR4, with the FR letters standing for "fire retardant."

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A printed circuit board can have multiple copper layers. A two-layer board has copper on both sides; multi layer boards sandwich additional copper layers between layers of insulating material. Conductors on different layers are connected with vias, which are copper-plated holes that function as electrical tunnels through the insulating substrate.

#### Printed circuit board - Wikipedia

High Performance Printed Circuit Board: Charles A. Harper: McGraw-Hill: RB-01: Printed Circuit Board Materials Handbook: Martin W. Jawitz: McGraw-Hill: RB-02: Microvias for Low Cost, High Density Interconnects: John H. Lau & S.W. Ricky Lee: McGraw-Hill: RB-03: Electronic Packaging and Interconnection Handbook (3rd Edition) Charles A. Harper ...

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