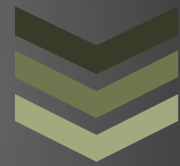


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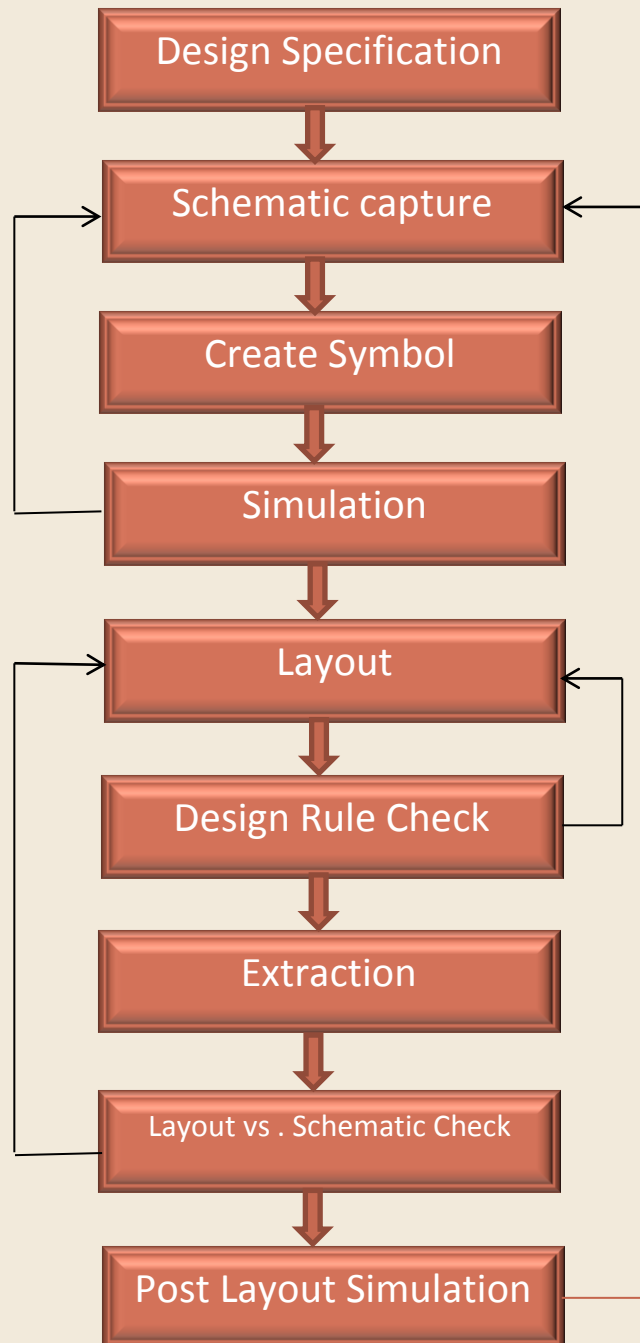
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| Module -1 Fundamental of Analog | 1. Basic concepts 1.1 Introduction to R, C, L circuits 1.2 current and voltage sources 1.3 introductions to simulation environment and various types of analysis. |
| Module – 2 MOSFET | 2. Introduction to MOSFET device physics 2.1 MOSFET operation 2.2 input and output characteristics 2.3 regions of operation - linear, saturation, sub threshold region 2.4 MOSFET small signal model |
| Module – 3 Single Stage Amplifier | 3. Single stage amplifiers 3.1 common source, 3.2 common gate, 3.3 source follower 3.4 source degeneration |
| Module – 4 Operational Amplifier | 4. Operational amplifiers 4.1 Basic current mirror 4.2 cascode current mirror 4.3 Single stage differential amplifier 4.4 Two stage op amp 4.5 Frequency response 4.6 Compensation techniques |
| Module -5 | 5. Extra useful topics 1. Simplified CMOS inverter characteristics 2. Flip flop setup/hold explanation 3. Different types of Devices available in silicon technologies |