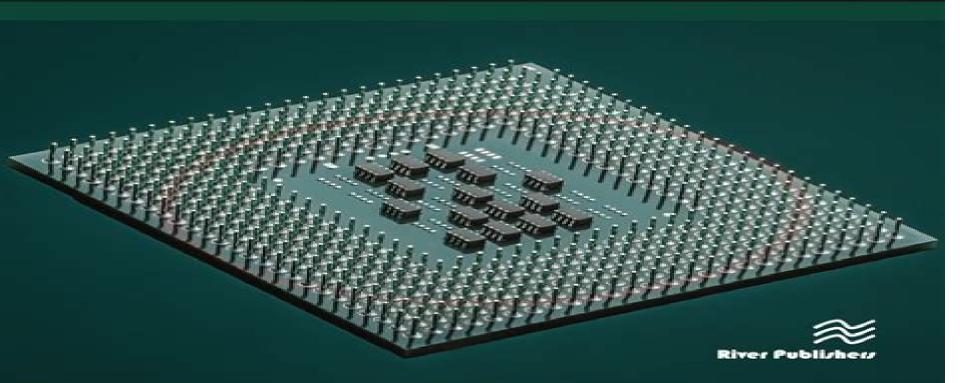
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# **BASIC VLSI DESIGN TECHNOLOGY**

**TECHNICAL QUESTIONS AND SOLUTIONS** 

Cherry Bhargava and Gaurav Mani Khanal



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#### **Basic Vlsi Design:**

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and circuit wise As the complexity of the chips increases less importance will be placed on understanding how a particular arithmetic datapath design is implemented and more importance will be given to when a product will be placed on the market This is because many tools that are available today are automated to help the digital system designer maximize their efficiently Unfortunately this may lead to problems when implementing particular datapaths The design of high performance architectures is becoming more complicated because the level of integration that is capable for many of these chips is in the billions Many engineers rely heavily on software tools to optimize their work therefore as designs are getting more complex less understanding is going into a particular implementation because it can be generated automatically Although software tools are a highly valuable asset to designer the value of these tools does not diminish the importance of understanding datapath elements Therefore a digital system designer should be aware of how algorithms can be implemented for datapath elements Unfortunately due to the complex ity of some of these algorithms it is sometimes difficult to understand how a particular algorithm is implemented without seeing the actual code

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