

## Vlsi Interview Questions With Answers

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[Some people believe that explicitly preparing for job interview questions and answers is futile. Because when it comes to important matter of job interview, what counts is real knowledge of the field. It is not an academic exam, where text-book preparation might come handy. You just have to know the real deal to survive a job interview.](#)

[VLSI interview questions answered.](#)

[Answer 2. Implement an 2-input AND gate using a 2x1 mux. Answer 3. What is a multiplexer? Answer A multiplexer is a combinational circuit which selects one of many input signals and directs to the only output. 4. What is a ring counter? Answer A ring counter is a type of counter composed of a circular shift register.](#)

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[How should I prepare for a Digital VLSI Verification Interview? What all topics do I need to know before I turn up for an interview? What all concepts do I need to brush up? What all resources do I have at my disposal for preparation? What does an Interviewer expect in an Interview? These are few questions almost all individuals ponder upon before an interview. If you have these questions in your mind, your search ends here as keeping these questions in their minds, authors have written this book that will act as a golden reference for candidates preparing for Digital VLSI Verification Interviews. Aim of this book is to enable the readers practice and grasp important concepts that are applicable to Digital VLSI Verification domain \(and Interviews\) through Question and Answer approach. To achieve this aim, authors have not restricted themselves just to the answer. While answering the questions in this book, authors have taken utmost care to explain underlying fundamentals and concepts. This book consists of 500+ questions covering wide range of topics that test fundamental concepts through problem statements \(a common interview practice which the authors have seen over last several years\). These questions and problem statements are spread across nine chapters and each chapter consists of questions to help readers brush-up, test, and hone fundamental concepts that form basis of Digital VLSI Verification. The scope of this book however, goes beyond technical concepts. Behavioral skills also form a critical part of working culture of any company. Hence, this book consists of a section that lists down behavioral interview questions as well. Topics covered in this book:1. Digital Logic Design \(Number Systems, Gates, Combinational, Sequential Circuits, State Machines, and other Design problems\)2. Computer Architecture \(Processor Architecture, Caches, Memory Systems\)3. Programming \(Basics, OOP, UNIX/Linux, C/C++, Perl\)4. Hardware Description Languages \(Verilog, SystemVerilog\)5. Fundamentals of Verification \(Verification Basics, Strategies, and Thinking problems\)6. Verification Methodologies \(UVM, Formal, Power, Clocking, Coverage, Assertions\)7. Version Control Systems \(CVS, GIT, SVN\)8. Logical Reasoning/Puzzles \(Related to Digital Logic, General Reasoning, Lateral Thinking\)9. Non Technical and Behavioral Questions \(Most commonly asked\)In addition to technical and behavioral part, this book touches upon a typical interview process and gives a glimpse of latest interview trends. It also lists some general tips and Best-Known-Methods to enable the readers follow correct preparation approach from day-1 of their preparations. Knowing what an Interviewer looks for in an interviewee is always an icing on the cake as it helps a person prepare accordingly. Hence, authors of this book spoke to few leaders in the semiconductor industry and asked their personal views on "What do they look for while interviewing candidates and how do they usually arrive at a decision if a candidate should be hired?". These leaders have been working in the industry from many-many years now and they have interviewed lots of candidates over past several years. Hear directly from these leaders as to what they look for in candidates before hiring them. Enjoy reading this book. Authors are open to your feedback. Please do provide your valuable comments, ratings, and reviews.](#)

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[If you can spare half an hour, then we can guarantee success at your next VLSI \(Very Large Scale Integration\)-FPGA \(Field Programmable Gate Array\)-STA \(Static Timing analysis\) interview. Do you want to secure at least 3 to 4 job offers by succeeding at all the phone and on-site job interviews for the FPGA DESIGN ENGINEER position? Or do you simply want answers for the most frequently asked interview questions in VLSI-FPGA digital circuit design? Did you know that people who target question-answer type preparation for a job interview are 3-4 times more likely to get a job offer than those who don't? Did you also know that there is a set of questions that is likely to be repeatedly asked by interviewers across the industry, no matter who you talk with in the VLSI-FPGA digital design? After a total of 17 unsuccessful interviews, we thought of writing a book to help upcoming undergrads and experience professionals to get selected in such interviews. The book covers every dimension related to FPGA, Verilog, STA and Protocols. In simple words, don ' t search anything on the internet, this book is the Google of FPGA and Verilog.](#)

[This book is a comprehensive guide to new DFT methods that will show the readers how to design a testable and quality product, drive down test cost, improve product quality and yield, and speed up time-to-market and time-to-volume. Most up-to-date coverage of design for testability. Coverage of industry practices commonly found in commercial DFT tools but not discussed in other books. Numerous, practical examples in each chapter illustrating basic VLSI test principles and DFT architectures.](#)

[Nothing is more crucial to landing your dream job than a stellar performance in the all-important interview, that nerve-wracking final step to every job search. Extensively updated and revised for today's highly competitive employment market, this compact, concise handbook will prepare you for the most challenging and frequently asked questions you can expect to encounter. Following each question is a list of savvy, can't-miss sample answers, which can be easily modified to reflect your own experience level, skills, and qualifications.](#)

[Aimed primarily for undergraduate students pursuing courses in VLSI design, the book emphasizes the physical understanding of underlying principles of the subject. It not only focuses on circuit design process obeying VLSI rules but also on technological aspects of Fabrication, VHDL modeling is discussed as the design engineer is expected to have good knowledge of it. Various Modeling issues of VLSI devices are focused which includes necessary device physics to the required level. WWith such an in-depth coverage and practical approach practising engineers can also use this as ready reference.](#)

[The Verilog Hardware Description Language was first introduced in 1984. Over the 20 year history of Verilog, every Verilog engineer has developed his own personal " bag of tricks " for coding with Verilog. These tricks enable modeling or verifying designs more easily and more accurately. Developing this bag of tricks is often based on years of trial and error. Through experience, engineers learn that one specific coding style works best in some circumstances, while in another situation, a different coding style is best. As with any high-level language, Verilog often provides engineers several ways to accomplish a specific task. Wouldn ' t it be wonderful if an engineer first learning Verilog could start with another engineer ' s bag of tricks, without having to go through years of trial and error to decide which style is best for which circumstance? That is where this book becomes an invaluable resource. The book presents dozens of Verilog tricks of the trade on how to best use the Verilog HDL for modeling designs at various level of abstraction, and for writing test benches to verify designs. The book not only shows the correct ways of using Verilog for different situations, it also presents alternate styles, and discusses the pros and cons of these styles.](#)

[Until now, there has been a lack of a complete knowledge base to fully comprehend Low power \(LP\) design and power aware \(PA\) verification techniques and methodologies and deploy them all together in a real design verification and implementation project. This book is a first approach to establishing a comprehensive PA knowledge base. LP design, PA verification, and Unified Power Format \(UPF\) or IEEE-1801 power format standards are no longer special features. These technologies and methodologies are now part of industry-standard design, verification, and implementation flows \(DVIF\). Almost every chip design today incorporates some kind of low power technique either through power management on chip, by dividing the design into different voltage areas and controlling the voltages, through PA dynamic and PA static verification, or their combination. The entire LP design and PA verification process involves thousands of techniques, tools, and methodologies, employed from the r egister transfer level \(RTL\) of design abstraction down to the synthesis or place-and-route levels of physical design. These techniques, tools, and methodologies are evolving everyday through the progression of design-verification complexity and more intelligent ways of handling that complexity by engineers, researchers, and corporate engineering policy makers.](#)

[SystemVerilog language consists of three categories of features -- Design, Assertions and Testbench. Assertions add a whole new dimension to the ASIC verification process. Engineers are used to writing testbenches in verilog that help verify their design. Verilog is a procedural language and is very limited in capabilities to handle the complex ASICs built today. SystemVerilog assertions \(SVA\) is a declarative language. The temporal nature of the language provides excellent control over time and allows multiple processes to execute simultaneously. This provides the engineers a very strong tool to solve their verification problems. The language is still new and the thinking is very different from the user's perspective when compared to standard verilog language. There is not enough expertise or intellectual property available as of today in the field. While the language has been defined very well, there is no practical guide that shows how to use the language to solve real verification problems. This book is a practical guide that will help people to understand this new language and adopt assertion based verification methodology quickly.](#)

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