



## Software Engineering

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## Product Description

Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.

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**Chapter 1:** Historical Evolution of Software Engineering. **Chapter 2:** Software Life cycle Models. **Chapter 3:** Software Project Management. **Chapter 4:** Software Project Estimation and Risk Management. **Chapter 5:** Requirements Engineering and Specifications. **Chapter 6:** Software Design Fundamentals **Chapter 7:** Software Design Strategies and Methods. **Chapter 8:** Structured Analysis and Design Tools. **Chapter 9:** User Interface Design. **Chapter 10:** Coding. **Chapter 11:** Software testing Techniques and Strategies. **Chapter 12:** Software Measures, Metrics and Models. **Chapter 13:** Software Quality and Quality Assurance. **Chapter 14:** Software Quality Standards and Models. **Chapter 15:** Software Reliability and Reliability Models. **Chapter 16:** Software Safety and Hazard Analysis. **Chapter 17:** Computer Aided Software Engineering (CASE) Tools. **Chapter 18:** Software Maintenance and Maintenance Costs. **Chapter 19:** Software Configuration Management. **Chapter 20:** Software Reuse and Activities. **Chapter 21:** Component- Based Software Engineering. **Chapter 22:** Software Architecture. **Chapter 23:** Software Documentation. **Chapter 24:** Software Re-engineering.

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## Author

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**Nasib Singh Gill** Dr. Nasib Singh Gill is a high profile and an acknowledge teacher. Dr. Gill obtained his Ph.D. degree in Computer Science in March 1996 under the supervision of a very renowned and an eminent Computer Scientist, Pro-Head, Department of Computer Science & Applications, M.D. University, Rohatak. He is working in Department of Computer Science & Applications, M.D. University, Rohtak since its inception in Feb. 1990. Presently, he is working as Senior Faculty in the department and has more than 10.5 years of teaching experience. His area of research is 'Software Metrics', a sub-area of 'Software engineering' discipline and presently he is orienting himself in the area of 'Information Technology'

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