

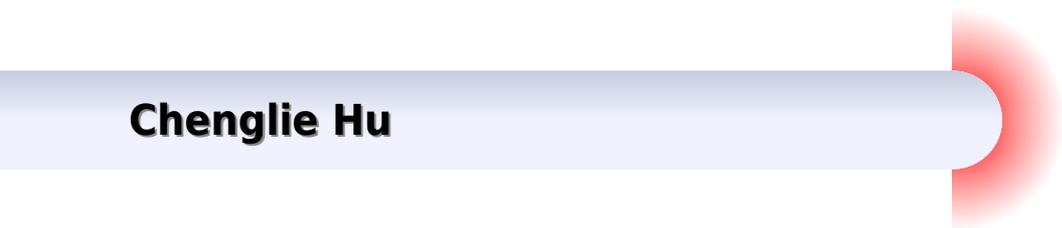
# A Technique for Software Module Specification with Examples

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Presented by:  
Keisha Hill and Kanayo Orji

# A Paradigm For Software Module Specification With Examples

**Chenglie Hu**



## **A Paradigm For Software Module Specification With Examples:**

*A Paradigm for Software Module Specification with Examples* David Lorge Parnas, CARNEGIE-MELLON UNIV PITTSBURGH PA DEPT OF COMPUTER SCIENCE., 1971 The paper presents a method for writing specifications of parts of software systems The main goal is to provide specifications sufficiently precise and complete that other pieces of software can be written to interact with the piece specified without additional information The secondary goal is to include in the specification no more information than necessary to meet the first goal The technique is illustrated by means of a variety of examples from a tutorial system Author **Ada Programmer's Handbook and Language Reference Manual LRM** Dean W. Gonzalez, 1991 **Software Components with Ada** Grady Booch, 1987 **Program Test Methods** William C. Hetzel, 1973 Part I of this book serves as an introduction to the other parts of the book briefly summarizing and relating the chapters to each other as well as offering a definitional framework for the field of testing Parts II to VIII form the core of the book and basically contain the edited papers of the symposium arranged in topical order Part IX contains a large annotated bibliography of the testing literature The bibliography is structured into subject areas and is referenced by all the chapters in the text *Ada Programmer's Handbook* Dean W. Gonzalez, 1991 *An Introduction to Software Design* Chenglie Hu, 2023-07-24 This textbook provides a balanced coverage on software design including design principles methodologies and techniques in contexts of designing modules of small and larger sizes with a multi paradigm viewpoint emphasizing design trade off Commonly used design diagrams and patterns are also covered in terms of the design ideas behind and their effective use The book also explores what software design thinking is the role it plays in a design process and ways to promote it Despite object orientation being still the center of attention there is a strong promotion throughout the book that software design should consider all appropriate design paradigms and methodologies The book is organized in 10 chapters Chapter 1 is dedicated to an exploration of what software design may be and entail Next chapters 2 and 3 are designed to help readers better understand object orientation and the essentials of object oriented design Chapter 4 is then dedicated to the design of methods while chapters 5 6 and 8 respectively include topics about the design of objects modeling with the Unified Modeling Language and the use of design patterns Larger software elements are often directly responsible for the formation of software architecture thus chapter 7 covers four kinds of larger software elements libraries components frameworks and microservices and their architectural implications Chapter 9 finally brings the presentation of software design to an end with a coverage on software architecture focusing on software architectural views Case studies are important in learning how to design software hence chapter 10 then gathers some small design case studies that can be used in earlier chapters as appropriate These case studies can be extended in different ways to provide additional design opportunities This textbook book is intended for a junior level undergraduate course on software design yet the depth of the book makes it also appropriate for a design course at beginning graduate level Professionals may also find the book useful in

their professional development      **Program Testing Techniques** ,1977      **Computers, by the Millions for the Millions**  
IEEE Computer Society,1976      **Digest of Papers - Compcon** ,1976      **Digest of Papers** ,1976      **Software**  
**Engineer's Reference Book** John A McDermid,2013-10-22 Software Engineer s Reference Book provides the fundamental  
principles and general approaches contemporary information and applications for developing the software of computer  
systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of  
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students of computer science      *Government Reports Announcements* ,1971-07-10      [Government Reports Announcements](#)  
[& Index](#) ,1990      **CASCON ...** ,1994      [Applied Software Product Line Engineering](#) Kyo C. Kang,Vijayan  
Sugumaran,Sooyong Park,2009-12-22 Over the last decade software product line engineering SPLE has emerged as one of  
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with regard to syst      *CASCON '94* ,1994      [Government Reports Index](#) ,1971      **Tutorial, Software Testing &**  
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