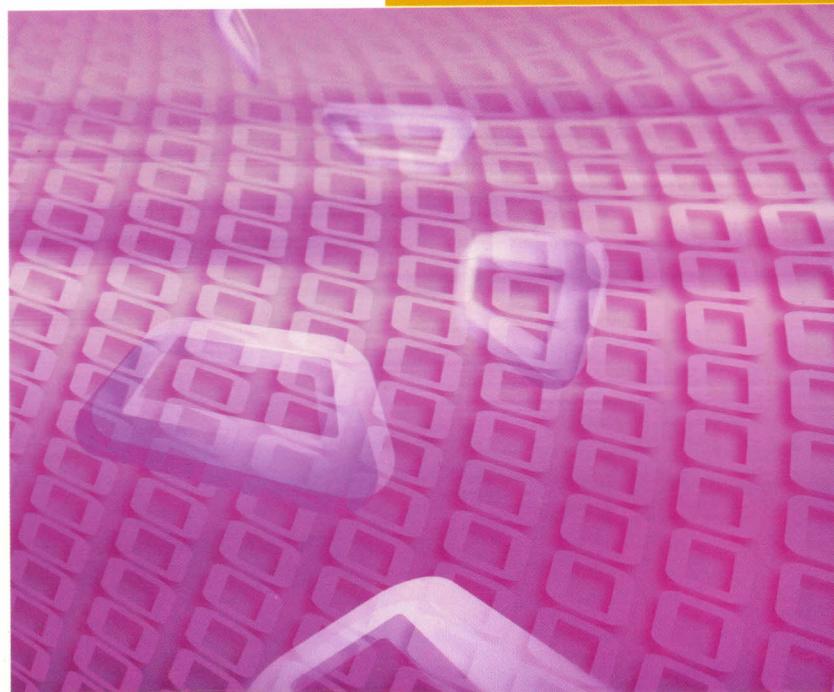


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Programming with **JAVA**

T.V. Suresh Kumar
B. Eswara Reddy
P. Raghavan

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This book introduces the principles of object-oriented programming through Java. The authors have taken care to give lucid, simple examples that make the reader understand the concepts easily. The examples do not have any reference from previous chapters, and can all be easily understood independently of the previous examples.

The book is designed to be compatible with Java Development Kit (JDK) v. 1.5 and later. A few chapters briefly mention some of the newer classes and methods available in JDK v. 1.6. They have provided guidelines to create and run the program in the Command window of the Windows environment, and the use of Netbeans IDE to develop an application. Through this, the reader can gain excellent practical skills in analyzing and running the programs.

Excellent, probing questions are provided at the end of each chapter to allow readers to realistically assess their understanding of the concepts. Support for certifications in Java programming is given by providing multiple-choice questions at the end of each chapter.

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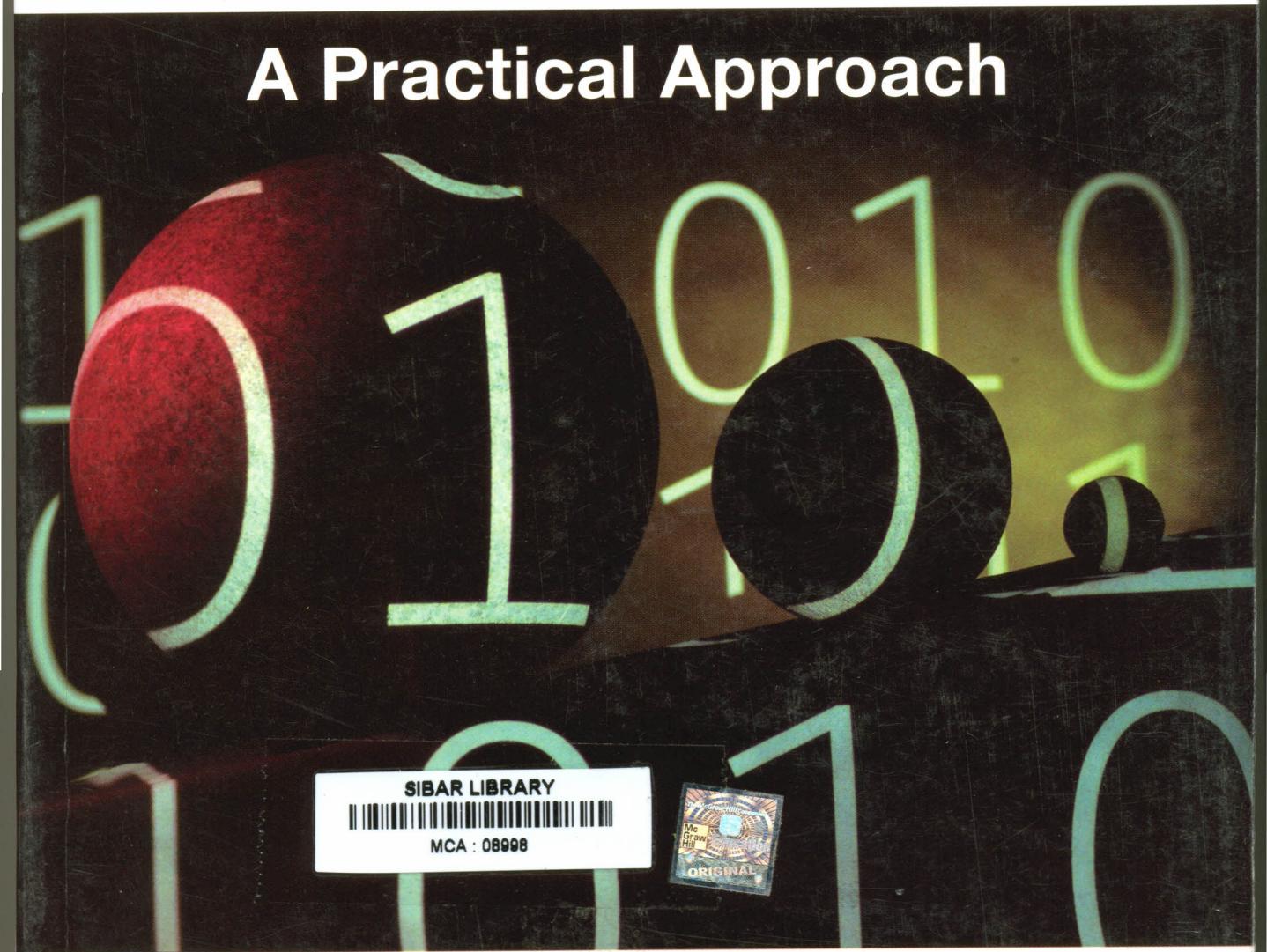


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Salient Features

- ★ Pure object-oriented approach
- ★ Detailed explanations for Windows, Graphical User Interface, Swings, AWT and Remote Method Invocation
- ★ Elaborate coverage of Networking, Socket Programming, JDBC and Servlets with programming examples
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- Incorporates features of Java 2 and J2SE
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- Illustrates the use of advanced concepts like multithreads and graphics
- Explains how to create and implement applets and to build distributed applications using Java RMI
- Presents around 350 tested programs with outputs and reinforces the learning through exercises

Mr Rashmi Kanta Das holds a Masters in Business Administration from Utkal University, Orissa. He is a Sun Certified Java Programmer, Web Component Developer, Business Component Developer and a Microsoft Certified System Engineer. Presently, he is a senior faculty and head of the Java Research team of Interface Software, Bhubaneswar, one of the most reputed institutions in India in the field of Java programming. The author has more than ten years of experience in working with Java and finding innovative solutions to the challenges faced in the software industry.

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- ▶ Arrays, Strings and Vectors
- ▶ Packages and Interfaces
- ▶ Exception Handling
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- ▶ Working with Graphics

This edition is an attempt to impart in a nutshell all the important elements of this classic web based programming language. Each module is suitably divided into units of major sub-topics. Basically this book is written in a self-learning style keeping the needs of the student in mind.

About the Author

Dr. Amita Dev has a B.Tech Degree from Punjab Engineering College, M.S in Software systems and Ph.D (Computer Engineering) from Delhi College of Engineering. She is presently working as Head, Department of Computer Science and Engineering at Ambedkar Institute of Technology, Govt. of Delhi.

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She has over 19 years of experience in industry, research and teaching. In 1995, she received "Best Teacher Award" (Polytechnic) awarded by Department of Training and Technical Education, Govt. of Delhi. In year 1998, she received "AICTE Career Award for Young Teachers" to pursue advance research in the area of Hindi Speech Recognition. In the year 2001, she received "RajaramBapu Patil National Award for the best promising Engineering Teacher" awarded by ISTE. Her current research focuses primarily on Speech Recognition by computers, design and implementation of unlimited vocabulary continuous Hindi Speech recognition system and has published over 15 papers in National and International conferences and in reputed journals.

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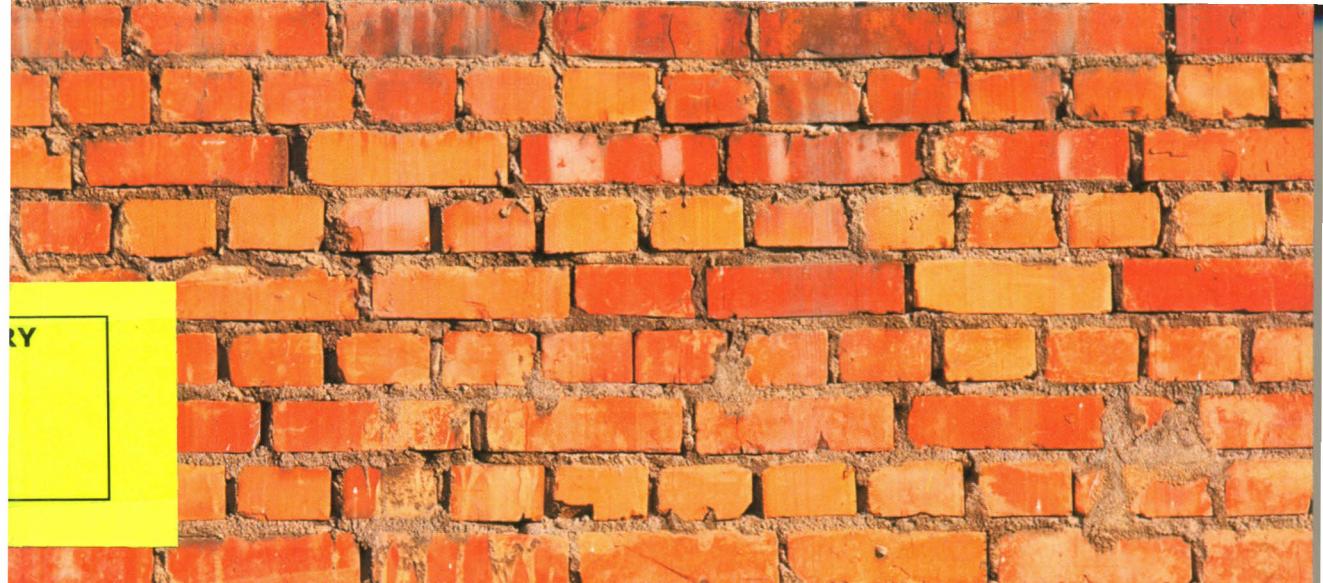


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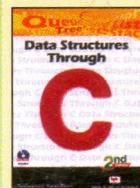


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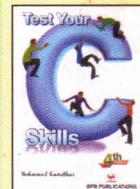


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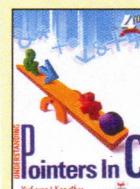
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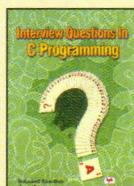
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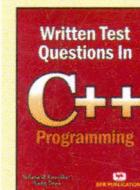
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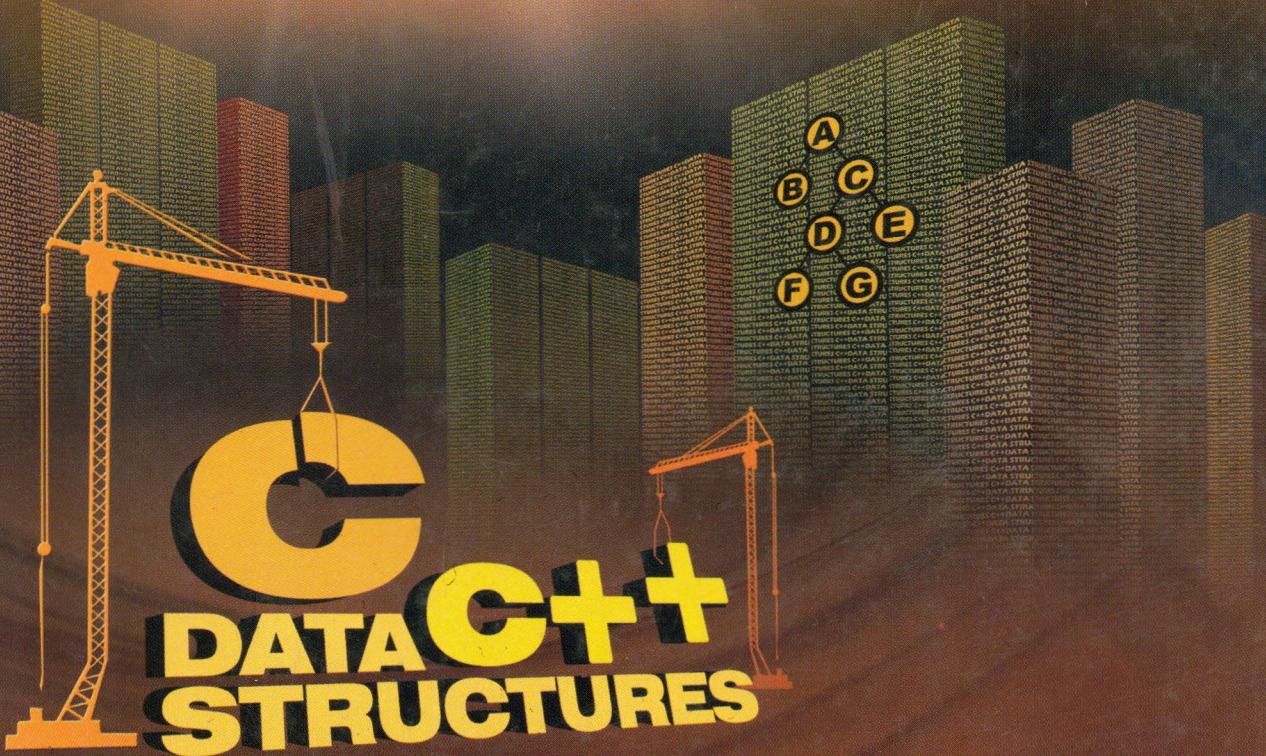
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Without doubt, C, C++ and Data Structures are the three topics that one has to master to be able to start a career in software. C programming will help you understand the basic elements of a programming language and how to create simple and workable programs. C++, which is built on top of C, would help you understand how to model the program using the Object Oriented Programming methodology and how to build complex programs that work in real life. Choosing the right way to organize the data while creating C / C++ programs is what would make your programs better from organization and efficiency standpoint. This book teaches you C, C++ and Data Structures through several example programs. This is because no amount of theory is good unless you are able to see it at work in a program.

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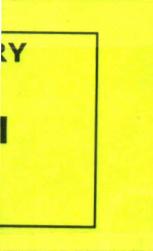


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Brahma Dathan
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Object-oriented analysis and design (OOAD) has, over the years, become quite vast a field comprising diverse topics such as design process and principles, documentation tools, refactoring, and design and architectural patterns. For most students the learning experience is incomplete without implementation. This book, meant to serve as a textbook on the subject, provides a comprehensive introduction to OOAD. The salient points of its coverage are:

- ❖ A sound footing on object-oriented concepts such as classes, objects, interfaces, inheritance, polymorphism, dynamic linking, etc.
- ❖ A good introduction to the stage of requirements analysis
- ❖ Use of UML to document user requirements and design
- ❖ An extensive treatment of the design process
- ❖ Coverage of implementation issues
- ❖ Appropriate use of design and architectural patterns
- ❖ Introduction to the art and craft of refactoring
- ❖ Pointers to resources that further the reader's knowledge

All the main case studies used in this book have been implemented by the authors using Java. The text is liberally peppered with snippets of code, which are short, fairly self-explanatory and easy to read. Familiarity with a Java-like syntax and a broad understanding of the structure of Java would be helpful in using the book to its full potential.

Brahma Dathan is an associate professor in the Department of Information and Computer Sciences at Metropolitan State University, Minnesota. He obtained his BS in engineering with special focus on electronics and communication from the University of Kerala, MTech in computer science from IIT Madras and PhD in computer science from the University of Pittsburgh.

Sarnath Ramnath received his BTech and MTech degrees from IIT Delhi in 1984 and 1987 respectively, and his PhD in computer science from SUNY, Buffalo, in 1994. His areas of interest include algorithm analysis and design, data structures, computational geometry and object-oriented software design. He is currently Professor and Chair in the Department of Computer Science at Minnesota State University, St Cloud, MN, USA.

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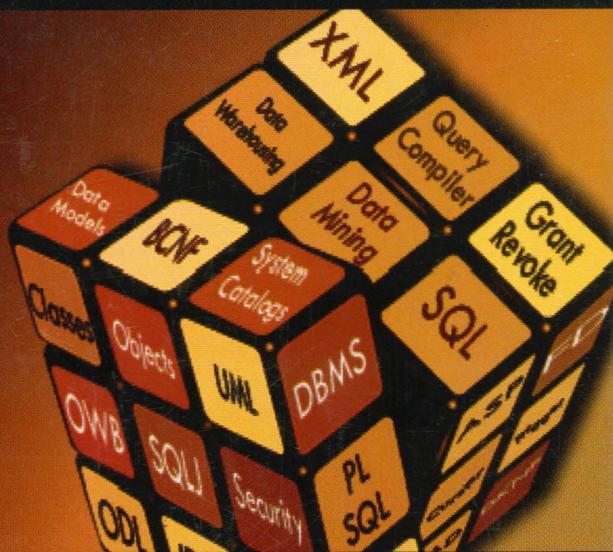


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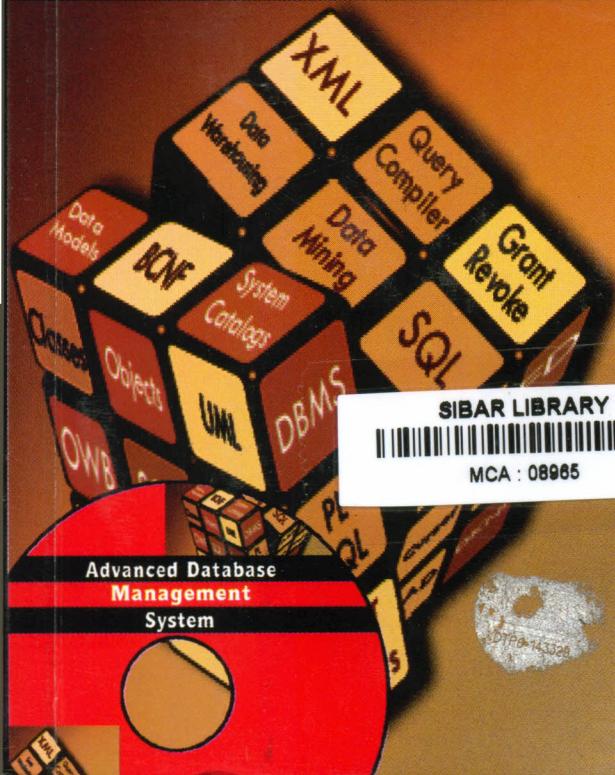
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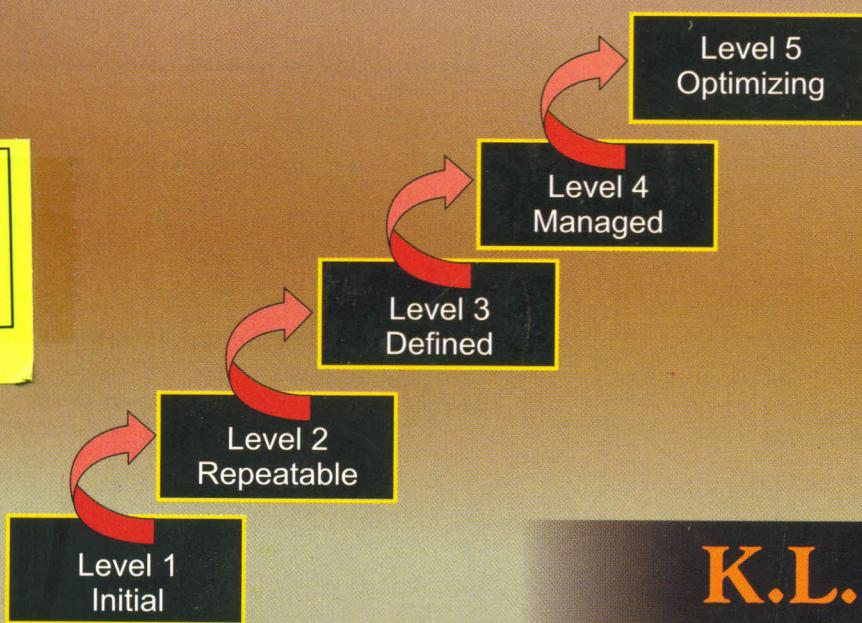
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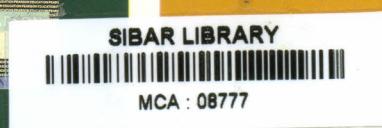
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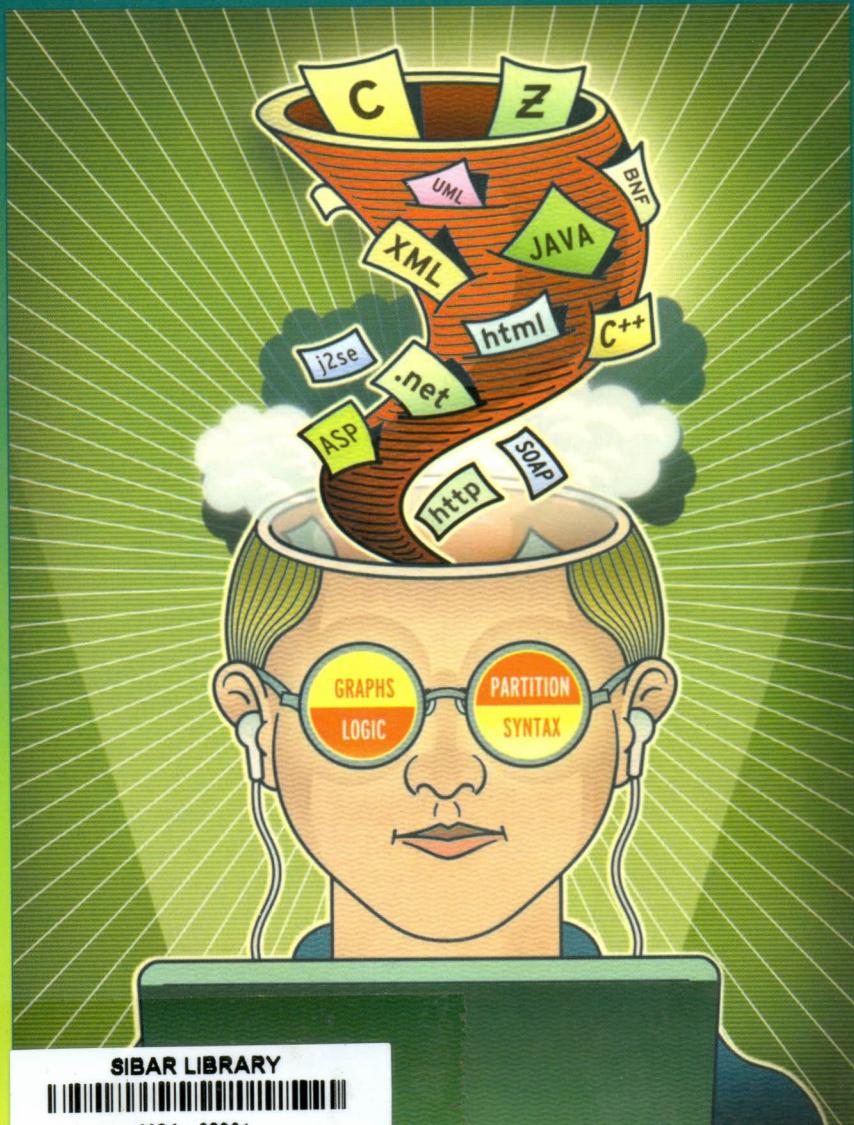
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