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Autore	Robinson John A
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Nota di contenuto	Cover; Software Design for Engineers and Scientists; Contents; Preface; Acknowledgements; Errors; 1 Introduction; 1.1 Theme; 1.2 Audience; 1.3 Three definitions and a controversy; 1.4 Essential software design; 1.5 Outline of the book; Foundations; Software technology; Applied software design; Case studies; 1.6 Presentation conventions; 1.7 Chapter end material; Bibliography; 2 Fundamentals; 2.1 Introduction; 2.2 The nature of software; 2.3 Software as mathematics; 2.4 Software as literature; 2.5 Organic software; 2.6 Software design as engineering; 2.7 Putting the program in its place 2.8 User-centred design2.9 The craft of program construction; 2.10 Programmers' programming; 2.11 Living with ambiguity; 2.12 Summary; 2.13 Chapter end material; Bibliography; 3 The craft of software design; 3.1 Introduction; 3.2 Collaboration and imitation; 3.3 Finishing; 3.4 Tool building; 3.5 Logbooks; 3.6 The personal library; 3.7 Chapter end material; Bibliography; 4 Beginning programming in C++; 4.1 Introduction; 4.2 The programming environment; 4.3

Program shape, output, and the basic types; 4.4 Variables and their types; 4.5 Conditionals and compound statements; 4.6 Loops
 4.7 Random numbers, timing and an arithmetic game 4.8 Functions; 4.9
 Arrays and C-strings; 4.10 Program example: A dice-rolling simulation;
 4.11 Bitwise operators; 4.12 Pointers; 4.13 Arrays of pointers and
 program arguments; 4.14 Static and global variables; 4.15 File input
 and output; 4.16 Structures; 4.17 Pointers to structures; 4.18 Making
 the program more general; 4.19 Loading structured data; 4.20 Memory
 allocation; 4.21 typedef; 4.22 enum; 4.23 Mechanisms that underlie the
 program; 4.24 More on the C/C++ standard library; 4.25 Chapter end
 material; Bibliography
 5 Object-oriented programming in C++ 5.1 The motivation for object-
 oriented programming; Objects localize information; In an object-
 oriented language, existing solutions can be extended powerfully; 5.2
 Glossary of terms in object-oriented programming; Data structure;
 Abstract Data Type (ADT); Class; Object; Method; Member function;
 Message; Base types and derived types; Inheritance; Polymorphism; 5.3
 C++ type definition, instantiation and using objects; Stack ADT
 example; Location ADT example; Vector ADT example; 5.4
 Overloading; Operator overloading; 5.5 Building a String class
 5.6 Derived types, inheritance and polymorphism Locations and
 mountains example; Student marks example; 5.7 Exceptions; 5.8
 Templates; 5.9 Streams; 5.10 C++ and information localization; 5.11
 Chapter end material; Bibliography; 6 Program style and structure; 6.1
 Write fewer bugs!; 6.2 Ten programming errors and how to avoid them;
 The invalid memory access error; The off-by-1 error; Incorrect
 initialization; Variable type errors; Loop errors; Incorrect code blocking;
 Returning a pointer or a reference to a local variable; Other problems
 with new and delete; Inadequate checking of input data
 Different modules interpret shared items differently

Sommario/riassunto

Software Design for Engineers and Scientists integrates three core areas
 of computing:.. Software engineering - including both traditional
 methods and the insights of 'extreme programming'. Program design -
 including the analysis of data structures and algorithms. Practical
 object-oriented programming Without assuming prior knowledge of any
 particular programming language, and avoiding the need for students
 to learn from separate, specialised Computer Science texts, John
 Robinson takes the reader from small-scale programing to competence
 in large software projects, all within

2. Record Nr.	UNICAMPANIAVAN00002685
Autore	Zweigert, Konrad
Titolo	Introduzione al diritto comparato / Konrad Zweigert, Hein Kötz ; edizione italiana a cura di Adolfo di Majo e Antonio Gambaro ; traduzione di Barbara Pozzo
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