

1. Record Nr.	UNINA990000101450403321
Autore	Lucas, J.
Titolo	Horizontal wells : a new application of geological principles to effects the solution of the problem of supplyng Londonwith pure water / J. Lucas.
Pubbl/distr/stampa	London : E. Stanford, 1874
Descrizione fisica	VIII, 86 p., 5 tav. : ill. ; 26 cm
Disciplina	628.114
Locazione	FINBC
Collocazione	13 AR 21 E 19
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910480311803321
Autore	Back Ralph-Johan
Titolo	Refinement Calculus [[electronic resource]] : A Systematic Introduction // by Ralph-Johan Back, Joakim Wright
Pubbl/distr/stampa	New York, NY : , : Springer New York : , : Imprint : Springer, , 1998
ISBN	1-4612-1674-5
Edizione	[1st ed. 1998.]
Descrizione fisica	1 online resource (XVI, 520 p. 11 illus.)
Collana	Texts in Computer Science, , 1868-0941
Disciplina	005.1/4
Soggetti	Computers Theory of Computation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1 Introduction -- 1.1 Contracts -- 1.2 Using Contracts -- 1.3 Computers as Agents -- 1.4 Algebra of Contracts -- 1.5 Programming Constructs -- 1.6 Specification Constructs -- 1.7 Correctness -- 1.8

Refinement of Programs -- 1.9 Background -- 1.10 Overview of the Book -- I Foundations -- 2 Posets, Lattices, and Categories -- 3 Higher-Order Logic -- 4 Functions -- 5 States and State Transformers -- 6 Truth Values -- 7 Predicates and Sets -- 8 Boolean Expressions and Conditionals -- 9 Relations -- 10 Types and Data Structures -- II Statements -- 11 Predicate Transformers -- 12 The Refinement Calculus Hierarchy -- 13 Statements -- 14 Statements as Games -- 15 Choice Semantics -- 16 Subclasses of Statements -- 17 Correctness and Refinement of Statements -- III Recursion and Iteration -- 18 Well-founded Sets and Ordinals -- 19 Fixed Points -- 20 Recursion -- 21 Iteration and Loops -- 22 Continuity and Executable Statements -- 23 Working with Arrays -- 24 The N-Queens Problem -- 25 Loops and Two-Person Games -- IV Statement Subclasses -- 26 Statement Classes and Normal Forms -- 27 Specification Statements -- 28 Refinement in Context -- 29 Iteration of Conjunctive Statements -- References.

---

### Sommario/riassunto

Much current research in computer science is concerned with two questions: is a program correct? And how can we improve a correct program preserving correctness? This latter question is known as the refinement of programs and the purpose of this book is to consider these questions in a formal setting. In fact, correctness turns out to be a special case of refinement and so the focus is on refinement. Although a reasonable background knowledge is assumed from mathematics and CS, the book is a self-contained introduction suitable for graduate students and researchers coming to this subject for the first time. There are numerous exercises provided of varying degrees of challenge.

---