

1. Record Nr.	UNINA9910454672303321
Titolo	Advanced mathematical thinking [[electronic resource] /] / edited by David Tall
Pubbl/distr/stampa	Dordrecht ; ; Boston, : Kluwer Academic Publishers, c1991
ISBN	1-280-20754-X 9786610207541 0-306-47203-1
Edizione	[1st ed. 1991.]
Descrizione fisica	1 online resource (310 p.)
Collana	Mathematics education library ; ; v. 11
Altri autori (Persone)	TallDavid Orme
Disciplina	510/.71
Soggetti	Mathematics - Study and teaching Mathematics - Psychological aspects Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 261-274) and index.
Nota di contenuto	The Psychology of Advanced Mathematical Thinking -- The Nature of Advanced Mathematical Thinking -- Advanced Mathematical Thinking Processes -- Mathematical Creativity -- Mathematical Proof -- Cognitive Theory of Advanced Mathematical Thinking -- The Role of Definitions in the Teaching and Learning of Mathematics -- The Role of Conceptual Entities and Their Symbols in Building Advanced Mathematical Concepts -- Reflective Abstraction in Advanced Mathematical Thinking -- Research into the Teaching and Learning of Advanced Mathematical Thinking -- Research in Teaching and Learning Mathematics at an Advanced Level -- Functions and Associated Learning Difficulties -- Limits -- Analysis -- The Role of Students' Intuitions of Infinity in Teaching the Cantorian Theory -- Research on Mathematical Proof -- Advanced Mathematical Thinking and the Computer -- Epilogue -- Reflections.
Sommario/riassunto	Advanced Mathematical Thinking has played a central role in the development of human civilization for over two millennia. Yet in all that time the serious study of the nature of advanced mathematical thinking – what it is, how it functions in the minds of expert mathematicians, how it can be encouraged and improved in the developing minds of

students – has been limited to the reflections of a few significant individuals scattered throughout the history of mathematics. In the twentieth century the theory of mathematical education during the compulsory years of schooling to age 16 has developed its own body of empirical research, theory and practice. But the extensions of such theories to more advanced levels have only occurred in the last few years. In 1976 The International Group for the Psychology of Mathematics (known as PME) was formed and has met annually at different venues round the world to share research ideas. In 1985 a Working Group of PME was formed to focus on Advanced Mathematical Thinking with a major aim of producing this volume. The text begins with an introductory chapter on the psychology of advanced mathematical thinking, with the remaining chapters grouped under three headings: • the nature of advanced mathematical thinking, • cognitive theory, and • reviews of the progress of cognitive research into different areas of advanced mathematics.

2. Record Nr.

Autore

UNISALENT0991004406629407536

Quinn, Michael Jay

Titolo

Designing efficient algorithms for parallel computers / Michael J. Quinn

Pubbl/distr/stampa

New York [etc.] : McGraw-Hill

ISBN

0071002499

Descrizione fisica

xvi, 288 p. ; 24 cm

Disciplina

005.1

Soggetti

Computer programming

Computer algorithms

Lingua di pubblicazione

Inglese

Formato

Materiale a stampa

Livello bibliografico

Monografia

Note generali

Includes index