1. Record Nr. UNINA9910962382303321

Titolo	Mathematics learning in early childhood : paths toward excellence and equity / / Christopher T. Cross, Taniesha A. Woods, and Heidi Schweingruber, editors ; Committee on Early Childhood Mathematics, Center for Education, Division of Behavioral and Social Sciences and Education
Pubbl/distr/stampa	Washington, DC, : National Academies Press, c2009
ISBN	9786612437151 9780309147439 0309147433 9781282437159 1282437151 9780309128070 0309128072
Edizione	[1st ed.]
Descrizione fisica	xii, 386 p
Altri autori (Persone)	CrossChristopher T WoodsTaniesha A SchweingruberHeidi A
Disciplina	372.7
Soggetti	Mathematics - Study and teaching (Early childhood) Early childhood education
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	Introduction -- Foundational mathematics content -- Cognitive foundations for early mathematics learning -- Developmental variation, sociocultural influences, and difficulties in mathematics -- The teaching-learning paths for number, relations, and operations -- The teaching-learning paths for geometry, spatial thinking, and measurement -- Standards, curriculum, instruction, and assessment -- The early childhood workforce and its professional development -- Conclusions and recommendations.
Sommario/riassunto	"Early childhood mathematics is vitally important for young children's present and future educational success. Research has demonstrated

that virtually all young children have the capability to learn and become competent in mathematics. Furthermore, young children enjoy their early informal experiences with mathematics. Unfortunately, many children's potential in mathematics is not fully realized, especially those children who are economically disadvantaged. This is due, in part, to a lack of opportunities to learn mathematics in early childhood settings or through everyday experiences in the home and in their communities. Improvements in early childhood mathematics education can provide young children with the foundation for school success. Relying on a comprehensive review of the research, Mathematics Learning in Early Childhood lays out the critical areas that should be the focus of young children's early mathematics education, explores the extent to which they are currently being incorporated in early childhood settings, and identifies the changes needed to improve the quality of mathematics experiences for young children. This book serves as a call to action to improve the state of early childhood mathematics. It will be especially useful for policy makers and practitioners-those who work directly with children and their families in shaping the policies that affect the education of young children."--Publisher's description.

2. Record Nr. UNINA9910917793003321

Autore	Straughan Brian
Titolo	Thermal Convection with a Cattaneo Flux Law / / by Brian Straughan
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Birkhäuser, , 2024
ISBN	9783031808852 3031808851
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (174 pages)
Collana	Advances in Continuum Mechanics, , 2524-4647 ; ; 53
Disciplina	531.7
Soggetti	Continuum mechanics Differential equations Numerical analysis Thermodynamics Continuum Mechanics Differential Equations Numerical Analysis Termodinàmica Anàlisi numèrica Equacions diferencials Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Classical thermal convection -- Thermal convection with a Cattaneo flux law -- Cattaneo convection with Mariano theory -- Guyer-Krumhansl effects -- Kelvin-Voigt fluids -- Cattaneo convection with higher gradient Navier-Stokes theory -- Cattaneo convection with Double Diffusion -- Cattaneo convection with rotation or a magnetic field -- LTNE convection with Cattaneo effect in the solid.
Sommario/riassunto	This monograph provides an account of thermal convection with a focus on Cattaneo’s heat flux equation. Various applications of the equation are analyzed, such as those pertaining to nanoscale mechanics, nuclear engineering, the treatment of various diseases, and more. The influence it has had on problems in the field of thermal convection is highlighted as well. Several other important topics are

incorporated, including: Guyer-Krumhansl terms Kelvin-Voigt fluid theory Navier-Stokes theory Higher gradient fluid theories Thermal Convection with a Cattaneo Flux Law will appeal to researchers interested in exploring this active area.