

1. Record Nr.	UNISA996465467003316
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Titolo	Introduction to the tools of scientific computing // Einar Smith
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] Â©2020
ISBN	3-030-60808-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XII, 344 p. 40 illus., 33 illus. in color.)
Collana	Texts in Computational Science and Engineering ; ; Volume 25
Disciplina	004.0151
Soggetti	Computer science - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part I, Background -- Part II, Core Languages -- Part III, Commercial Computing Environments -- Part IV, Distributed Computing -- Part V, Specialized Programming Environments -- References -- Index.
Sommario/riassunto	The book provides an introduction to common programming tools and methods in numerical mathematics and scientific computing. Unlike widely used standard approaches, it does not focus on any particular language but aims to explain the key underlying concepts. In general, new concepts are first introduced in the particularly user-friendly Python language and then transferred and expanded in various scientific programming environments from C / C ++, Julia and MATLAB to Maple. This includes different approaches to distributed computing. The fact that different languages are studied and compared also makes the book useful for mathematicians and practitioners trying to decide which programming language to use for which purposes.