1. **Record Nr.**   UNINA9910482252103321
    Autore   Benjamin, of Tudela, <active 12th century.>
    Titolo   Itinerarivm Benjaminis, latine redditum opera Const. l'Emperevr [[electronic resource]]
    Pubbl/distr/stampa   Leiden, : Elzevir, 1633
    Descrizione fisica   Online resource ([72], 233, [7] p, 24°)
    Lingua di pubblicazione   Latino
    Formato   Materiale a stampa
    Livello bibliografico   Monografia
    Note generali   Reproduction of original in Koninklijke Bibliotheek, Nationale bibliotheek van Nederland.

2. **Record Nr.**   UNINA9910728945403321
    Autore   Venkateshan S. P.
    Titolo   Computational Methods in Engineering / / by S. P. Venkateshan, Prasanna Swaminathan
    Pubbl/distr/stampa   Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
    ISBN   3-031-08226-5
    Edizione   [1st ed. 2023.]
    Descrizione fisica   1 online resource (824 pages)
    Disciplina   620.001518
    Soggetti   Engineering mathematics
                          Mechanics, Applied
                          Engineering—Data processing
                          Solids
                          Mechanical engineering
                          Engineering Mathematics
                          Engineering Mechanics
                          Mathematical and Computational Engineering Applications
                          Solid Mechanics
                          Mechanical Engineering
                          Matemàtica per a enginyers
                          Processament de dades
                          Llibres electrònics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Solution of linear equations -- Computation of eigenvalues -- Solution of algebraic equations -- Interpolation.
Sommario/riassunto	The book is designed to serve as a textbook for courses offered to graduate and upper-undergraduate students enrolled in mechanical engineering. The book attempts to make students with mathematical backgrounds comfortable with numerical methods. The book also serves as a handy reference for practicing engineers who are interested in applications. The book is written in an easy-to-understand manner, with the essence of each numerical method clearly stated. This makes it easy for professional engineers, students, and early career researchers to follow the material presented in the book. The structure of the book has been modeled accordingly. It is divided into four modules: i) solution of a system of equations and eigenvalues which includes linear equations, determining eigenvalues, and solution of nonlinear equations; ii) function approximations: interpolation, data fit, numerical differentiation, and numerical integration; iii) solution of ordinary differential equations—initial value problems and boundary value problems; and iv) solution of partial differential equations—parabolic, elliptic, and hyperbolic PDEs. Each section of the book includes exercises to reinforce the concepts, and problems have been added at the end of each chapter. Exercise problems may be solved by using computational tools such as scientific calculators, spreadsheet programs, and MATLAB codes. The detailed coverage and pedagogical tools make this an ideal textbook for students, early career researchers, and professionals.