1. Record Nr. UNISALENTO991003094149707536

Autore	Casini, Tommaso <1859-1917>
Titolo	Il Risorgimento italiano : antologia storica ad uso delle scuole e delle persone colte / Tommaso Casini, Giuseppe Paladino
Pubbl/distr/stampa	Milano [etc.] : Albrighi Segati & C., 1924
Descrizione fisica	2 v. ; 21 cm
Altri autori (Persone)	Paladino, Giuseppeauthor
Disciplina	945.083
Soggetti	Risorgimento italiano - Antologia storica
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNINA9910983347703321

Autore	Marques Flavio D.
Titolo	Fundamentals of Aeroelasticity / / by Flávio D. Marques
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031709517
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (X, 183 p. 106 illus., 2 illus. in color.)
Collana	Solid Mechanics and Its Applications, , 2214-7764 ; ; 279
Disciplina	629.132362
Soggetti	Mechanics, Applied Solids Mechanical engineering Solid Mechanics Engineering Mechanics Mechanical Engineering
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Nota di bibliografia	Includes bibliographical references and index.

Nota di contenuto	Static Stability of Airfoils and Wings -- Equilibrium of an elementary airfoil model -- Aeroelastic divergence -- Stability criteria of airfoil aeroelastic equilibrium -- Equilibrium of airfoil with control surface.
Sommario/riassunto	This book delves into the fundamentals of aeroelasticity, providing a modern foundation for education and research in aeronautical engineering. It begins with a brief introduction to aeroelasticity and then explores the static stability of airfoils and wings, using elementary models to solve fluid-structure interaction problems under equilibrium conditions. The dynamics of the typical aeroelastic section are examined, including modal analysis and dynamic characterization. Analytical and numerical aerodynamic models are discussed for unsteady aerodynamics, offering tools for studying stability phenomena and calculating aeroelastic responses. The text covers aeroelastic response and stability analysis, demonstrating coupled aerodynamic models' behavior under varying parameters and predicting flutter phenomena. The dynamic aeroelasticity of wings is analyzed, presenting a time-domain simulation model to show flutter conditions and aeroelastic modes. Appendices provide insights on finite element modeling of beams, self-excited systems, and surface interpolation methods, with numerous examples for result replication, though no specific computational tools are suggested.