

1. Record Nr.	UNINA990000084490403321
Autore	Symposium on naval structural mechanics : 2. : <1960
Titolo	Plasticity : proceedings of the second symposium on naval structural mechanics held at Brown University, Rhode Island, april 5-7, 1960 / edited by E. H. Lee , P. S. Symonds.
Pubbl/distr/stampa	Oxford : Pergamon press, 1960
Descrizione fisica	XVIII, 611 p. : ill. ; 25 cm
Collana	Office of naval research structural mechanics series
Disciplina	623.817
Locazione	FINBC DINSC DININ IINTC
Collocazione	13 G 23 15 07 K-10/B 05 AC 29 21 05 64 9 03 TP.0,17 03 M.0,321
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	In testa al front.: : Office of naval research

2. Record Nr.	UNINA9910254087803321
Autore	Tapp Kristopher
Titolo	Differential Geometry of Curves and Surfaces / / by Kristopher Tapp
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-39799-0
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (VIII, 366 p. 186 illus. in color.)
Collana	Undergraduate Texts in Mathematics, , 0172-6056
Disciplina	516.36
Soggetti	Geometry, Differential Differential Geometry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction -- Curves -- Additional topics in curves -- Surfaces -- The curvature of a surface -- Geodesics -- The Gauss–Bonnet theorem -- Appendix A: The topology of subsets of $R^n$ -- Recommended excursions -- Index.
Sommario/riassunto	This is a textbook on differential geometry well-suited to a variety of courses on this topic. For readers seeking an elementary text, the prerequisites are minimal and include plenty of examples and intermediate steps within proofs, while providing an invitation to more excursive applications and advanced topics. For readers bound for graduate school in math or physics, this is a clear, concise, rigorous development of the topic including the deep global theorems. For the benefit of all readers, the author employs various techniques to render the difficult abstract ideas herein more understandable and engaging. Over 300 color illustrations bring the mathematics to life, instantly clarifying concepts in ways that grayscale could not. Green-boxed definitions and purple-boxed theorems help to visually organize the mathematical content. Color is even used within the text to highlight logical relationships. Applications abound! The study of conformal and equiareal functions is grounded in its application to cartography. Evolutes, involutes and cycloids are introduced through Christiaan Huygens' fascinating story: in attempting to solve the famous longitude problem with a mathematically-improved pendulum clock, he invented mathematics that would later be applied to optics and gears. Clairaut's

Theorem is presented as a conservation law for angular momentum. Green's Theorem makes possible a drafting tool called a planimeter. Foucault's Pendulum helps one visualize a parallel vector field along a latitude of the earth. Even better, a south-pointing chariot helps one visualize a parallel vector field along any curve in any surface. In truth, the most profound application of differential geometry is to modern physics, which is beyond the scope of this book. The GPS in any car wouldn't work without general relativity, formalized through the language of differential geometry. Throughout this book, applications, metaphors and visualizations are tools that motivate and clarify the rigorous mathematical content, but never replace it. .

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