

1. Record Nr.	UNINA9910451674103321
Autore	Zalinescu C. <1952->
Titolo	Convex analysis in general vector spaces [[electronic resource] /] / C Zalinescu
Pubbl/distr/stampa	River Edge, N.J. ; ; London, : World Scientific, c2002
ISBN	981-277-709-1
Descrizione fisica	1 online resource (xx, 367 p.)
Disciplina	515/.8
Soggetti	Convex functions Convex sets Functional analysis Vector spaces Electronic books.
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 (p. 349-357) and index.
Nota di contenuto	ch. 1. Preliminary results on functional analysis. 1.1. Preliminary notions and results. 1.2. Closedness and interiority notions. 1.3. Open mapping theorems. 1.4. Variational principles. 1.5. Exercises. 1.6. Bibliographical notes -- ch. 2. Convex analysis in locally convex spaces. 2.1. Convex functions. 2.2. Semi-continuity of convex functions. 2.3. Conjugate functions. 2.4. The subdifferential of a convex function. 2.5. The general problem of convex programming. 2.6. Perturbed problems. 2.7. The fundamental duality formula. 2.8. Formulas for conjugates and e-subdifferentials, duality relations and optimality conditions. 2.9. Convex optimization with constraints. 2.10. A minimax theorem. 2.11. Exercises. 2.12. Bibliographical notes -- ch. 3. Some results and applications of convex analysis in normed spaces. 3.1. Further fundamental results in convex analysis. 3.2. Convexity and monotonicity of subdifferentials. 3.3. Some classes of functions of a real variable and differentiability of convex functions. 3.4. Well conditioned functions. 3.5. Uniformly convex and uniformly smooth convex functions. 3.6. Uniformly convex and uniformly smooth convex functions on bounded sets. 3.7. Applications to the geometry of normed spaces. 3.8. Applications to the best approximation problem.

3.9. Characterizations of convexity in terms of smoothness. 3.10. Weak sharp minima, well-behaved functions and global error bounds for convex inequalities. 3.11. Monotone multifunctions. 3.12. Exercises. 3.13. Bibliographical notes.

Sommario/riassunto

This text seeks to present the conjugate and sub/differential calculus using the method of perturbation functions in order to obtain the most general results in this field. Its secondary aim is to provide important applications of this calculus and of the properties of convex functions.

2. Record Nr.

UNICAMPANIAVAN00253968

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Titolo

Rudimenti di meccanica quantistica / Cesare Rossetti

Pubbl/distr/stampa

Torino, : Levrotto&Bella, 2011

Titolo uniforme

Rudimenti di meccanica quantistica

ISBN

978-88-8218-151-2

Edizione

[2. ed]

Descrizione fisica

xix, 1049 p. : ill. ; 24 cm

Soggetti

81-XX - Quantum theory [MSC 2020]

Lingua di pubblicazione

Italiano

Formato

Materiale a stampa

Livello bibliografico

Monografia