



## Fundamentals of Convex Analysis (Grundlehren Text Editions)

By Jean-Baptiste Hiriart-Urruty, Claude Lemaréchal



**Fundamentals of Convex Analysis (Grundlehren Text Editions)** By Jean-Baptiste Hiriart-Urruty, Claude Lemaréchal

This book is an abridged version of the two volumes "Convex Analysis and Minimization Algorithms I and II" (*Grundlehren der mathematischen Wissenschaften* Vol. 305 and 306). It presents an introduction to the basic concepts in convex analysis and a study of convex minimization problems (with an emphasis on numerical algorithms). The "backbone" of both volumes was extracted, some material deleted which was deemed too advanced for an introduction, or too closely attached to numerical algorithms. Some exercises were included and finally the index has been considerably enriched, making it an excellent choice for the purpose of learning and teaching.

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### Editorial Review

Review

From the reviews of the first edition:

"...This book is an abridged version of the book "Convex Analysis and Minimization Algorithms" (shortly CAMA) written in two volumes by the same authors... . The authors have extracted from CAMA Chapters III-VI and X, containing the fundamentals of convex analysis, deleting material seemed too advanced for an introduction, or too closely attached to numerical algorithms. Each Chapter is presented as a "lesson" treating a given subject in its entirety, completed by numerous examples and figures. So, this new version becomes a good book for learning and teaching of convex analysis in finite dimensions..."

*S. Mititelu in "Zentralblatt für Mathematik und ihre Grenzgebiete", 2002*

"I believe that the book under review will become the standard text doing much to implement the type of course Victor Klee was advocating and covering as it does the considerable recent development of the subject. ... If you are looking for a well-designed text for a course on convex analysis, preliminary to one on optimization or nonlinear analysis then this is the one which will certainly be a standard for many years." (John Giles, The Australian Mathematical Society Gazette, Vol. 29 (2), 2002)

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