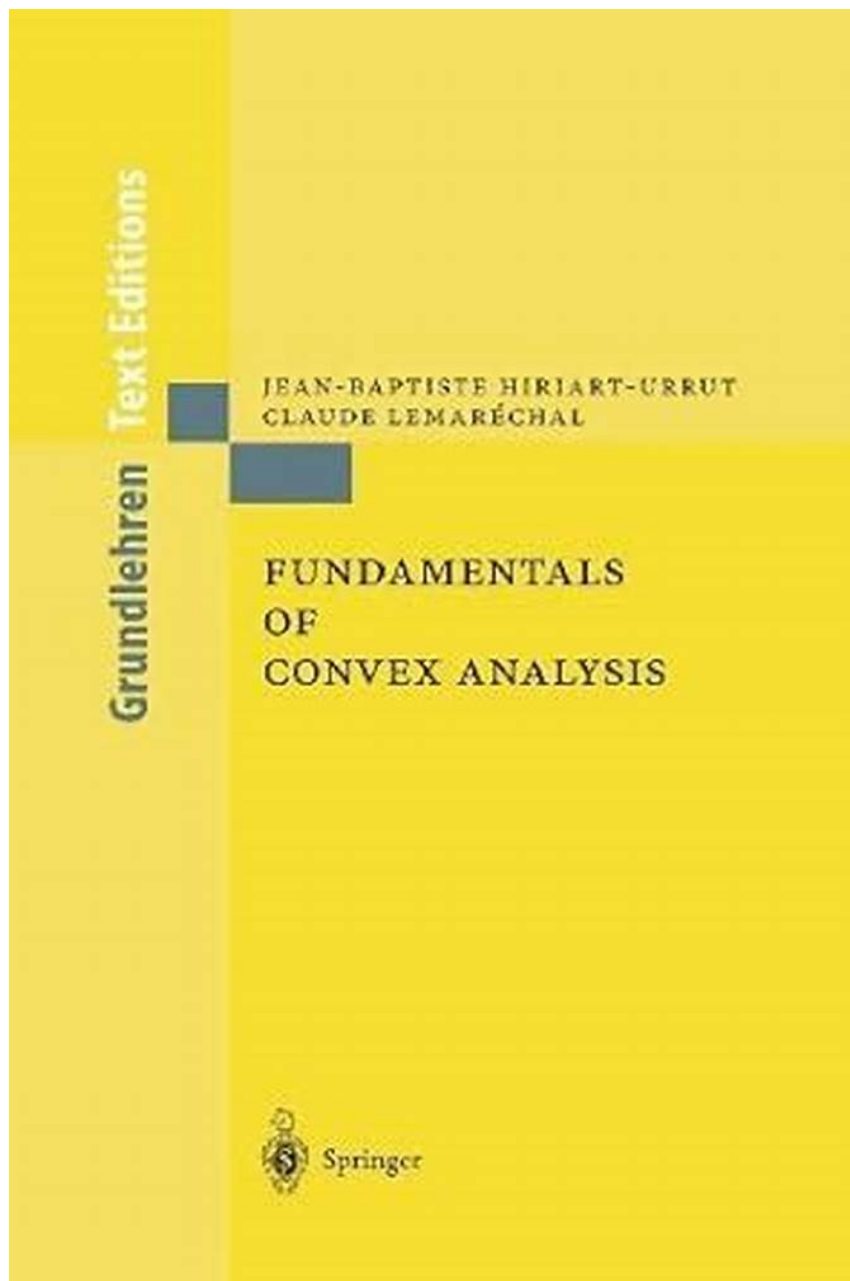


# Fundamentals of Convex Analysis: An Indispensable Guide for Optimization and Related Fields



Convex analysis is a powerful mathematical tool that finds applications in a wide range of fields, including optimization, economics, finance, and

engineering. Fundamentals of Convex Analysis provides a comprehensive and accessible to this important subject.

Written by two leading experts in the field, Jean-Baptiste Hiriart-Urruty and Claude Lemaréchal, this book covers the essential concepts of convex analysis in a clear and concise manner. The book begins with a review of the basic concepts of convex sets and functions, and then proceeds to discuss more advanced topics such as duality, subgradients, and variational inequalities.



## Fundamentals of Convex Analysis (Grundlehren Text Editions) by Jean-Baptiste Hiriart-Urruty

★ ★ ★ ★ ☆ 4.8 out of 5

Language : English

File size : 3432 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Print length : 269 pages



Fundamentals of Convex Analysis is an essential resource for anyone who wants to learn about this important subject. The book is well-written and well-organized, and it provides a wealth of examples and exercises to help readers understand the material.

### Key Features

\* Comprehensive coverage of the essential concepts of convex analysis \*

Clear and concise explanations \* Wealth of examples and exercises \*

Written by two leading experts in the field

## Benefits

\* Learn the basics of convex analysis \* Gain a deeper understanding of optimization and related fields \* Apply convex analysis to solve real-world problems

## Table of Contents

\* Preface \* \* Convex Sets and Functions \* Duality \* Subgradients \* Variational Inequalities \* Applications \* Bibliography \* Index

## About the Authors

Jean-Baptiste Hiriart-Urruty is a professor of mathematics at the University of Montpellier. He is a leading expert in convex analysis and optimization, and he has published extensively in these fields.

Claude Lemaréchal is a professor of computer science at the École Polytechnique. He is a leading expert in optimization and operations research, and he has published extensively in these fields.

## Reviews

"Fundamentals of Convex Analysis is an excellent to this important subject. The book is well-written and well-organized, and it provides a wealth of examples and exercises to help readers understand the material." - **SIAM**

## Review

"This book is a must-have for anyone who wants to learn about convex analysis. It is a well-written and comprehensive to this important subject." -

## Mathematical Reviews

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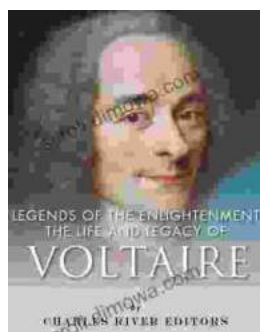
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