

Springer

1st
edition

2015, XVII, 269 p.

Printed book

Hardcover

Printed book

Hardcover

ISBN 978-3-319-08899-0

\$ 139,99

Available

Discount group

Professional Books (2)

Product category

Monograph

Series

Vector Optimization

Other renditions

Softcover

ISBN 978-3-319-36190-1

Softcover

ISBN 978-3-319-08901-0

Business and Management : Operation Research/Decision Theory

Grad, Sorin-Mihai

Vector Optimization and Monotone Operators via Convex Duality

Recent Advances

- Presents the first approach to the maximal monotonicity of the diagonal operators by means of representative functions
- Introduces a framework for vector duality via general scalarizations
- Investigates the structure of the closedness-type regularity conditions in scalar optimization, showing how one can derive them

This book investigates several duality approaches for vector optimization problems, while also comparing them. Special attention is paid to duality for linear vector optimization problems, for which a vector dual that avoids the shortcomings of the classical ones is proposed. Moreover, the book addresses different efficiency concepts for vector optimization problems. Among the problems that appear when the framework is generalized by considering set-valued functions, an increasing interest is generated by those involving monotone operators, especially now that new methods for approaching them by means of convex analysis have been developed. Following this path, the book provides several results on different properties of sums of monotone operators.

Order online at springer.com/booksellers**Springer Nature Customer Service Center LLC**

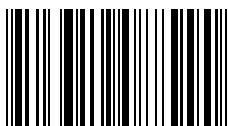
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

customerservice@springernature.com

ISBN 978-3-319-08899-0 / BIC: KJT / SPRINGER NATURE: SC521000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**