Optimization. Foundations and Applications

Description: A thorough and highly accessible resource for analysts in a broad range of social sciences.

Optimization: Foundations and Applications presents a series of approaches to the challenges faced by analysts who must find the best way to accomplish particular objectives, usually with the added complication of constraints on the available choices. Award-winning educator Ronald E. Miller provides detailed coverage of both classical, calculus-based approaches and newer, computer-based iterative methods.

Dr. Miller lays a solid foundation for both linear and nonlinear models and quickly moves on to discuss applications, including iterative methods for root-finding and for unconstrained maximization, approaches to the inequality constrained linear programming problem, and the complexities of inequality constrained maximization and minimization in nonlinear problems. Other important features include:

- More than 200 geometric interpretations of algebraic results, emphasizing the intuitive appeal of mathematics
- Classic results mixed with modern numerical methods to aid users of computer programs
- Extensive appendices containing mathematical details important for a thorough understanding of the topic

With special emphasis on questions most frequently asked by those encountering this material for the first time, Optimization: Foundations and Applications is an extremely useful resource for professionals in such areas as mathematics, engineering, economics and business, regional science, geography, sociology, political science, management and decision sciences, public policy analysis, and numerous other social sciences.

An Instructor’s Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department.

Contents:

FOUNDATIONS: LINEAR METHODS.

Matrix Algebra.

Systems of Linear Equations.

FOUNDATIONS: NONLINEAR METHODS.

Unconstrained Maximization and Minimization.

Constrained Maximization and Minimization.

APPLICATIONS: ITERATIVE METHODS FOR NONLINEAR PROBLEMS.

Solving Nonlinear Equations.

Solving Unconstrained Maximization and Minimization Problems.

APPLICATIONS: CONSTRAINED OPTIMIZATION IN LINEAR MODELS.

Linear Programming: Fundamentals.

Linear Programming: Extensions.

Linear Programming: Interior Point Methods.
APPLICATIONS: CONSTRAINED OPTIMIZATION IN NONLINEAR MODELS.

Nonlinear Programming: Fundamentals.
Nonlinear Programming: Duality and Computational Methods.

Problems.
References.

Ordering:  
Order Online - http://www.researchandmarkets.com/reports/2181102/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct.

Product Name: Optimization. Foundations and Applications
Web Address: http://www.researchandmarkets.com/reports/2181102/
Office Code: SCDVQXP

Product Format
Please select the product format and quantity you require:

<table>
<thead>
<tr>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hard Copy (Paper back):</td>
</tr>
<tr>
<td>USD 200 + USD 28 Shipping/Handling</td>
</tr>
</tbody>
</table>

* Shipping/Handling is only charged once per order.

Contact Information
Please enter all the information below in BLOCK CAPITALS

Title: Mr □ Mrs □ Dr □ Miss □ Ms □ Prof □
First Name: ____________________________
Last Name: ____________________________
Email Address: * ____________________________
Job Title: ____________________________
Organisation: ____________________________
Address: ____________________________
City: ____________________________
Postal / Zip Code: ____________________________
Country: ____________________________
Phone Number: ____________________________
Fax Number: ____________________________

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:

Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:

Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: _____________________________

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp

Please fax this form to:
(646) 607-1907 or (646) 964-6609 - From USA
+353-1-481-1716 or +353-1-653-1571 - From Rest of World