

# Practical Mathematical Optimization An Introduction To Basic Optimization Theory And Classical And New

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- Manufacturing
- Production
- Inventory control
- Transportation
- Scheduling
- Networks
- Finance
- Engineering
- Mechanics
- Economics
- Control engineering
- Marketing
- Policy Modeling

## PRACTICAL MATHEMATICAL OPTIMIZATION

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PRACTICAL MATHEMATICAL OPTIMIZATION

It is intended that this book be used in senior- to graduate-level semester courses in optimization,

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## Mathematical Optimization: introduction

Preface This book has been used in an upper division undergraduate course about optimization given in the Mathematics Department at Northwestern University.

## Introduction to Mathematical Optimization

Basic optimization principles are presented with emphasis on gradient-based numerical optimization strategies and algorithms for solving both smooth and noisy discontinuous optimization problems. Attention is also paid to the difficulties of expense of function evaluations and the existence of multiple minima that often unnecessarily inhibit the use of gradient-based methods.

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