# Metaheuristics for Hard Optimization: Methods and Case Studies

*By Johann Dréo, Alain Pétrowski, Patrick Siarry, Eric Taillard*

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Contains case studies from engineering and operations research

Includes commented literature for each chapter

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## Editorial Review

From the Back Cover

Metaheuristics for Hard Optimization comprises of three parts. The first part is devoted to the detailed presentation of the four most widely known metaheuristics:

• the simulated annealing method,

• tabu search,

• the evolutionary algorithms,

• ant colony algorithms.

Each one of these metaheuristics is actually a family of methods, of which the essential elements are discussed. In the second part, the book presents some other less widespread metaheuristics, then, extensions of metaheuristics and some ways of research are described . The problem of the choice of a metaheuristic is posed and solution methods are discussed. The last part concentrates on three case studies from telecommunications, air traffic control, and vehicle routing.

## Users Review

**From reader reviews:**

**Pedro Engle:**

This Metaheuristics for Hard Optimization: Methods and Case Studies book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you obtain by reading this book is usually information inside this guide incredible fresh, you will get info which is getting deeper you actually read a lot of information you will get. This Metaheuristics for Hard Optimization: Methods and Case Studies without we understand teach the one who examining it become critical in considering and analyzing. Don't become worry Metaheuristics for Hard Optimization: Methods and Case Studies can bring if you are and not make your handbag space or bookshelves' come to be full because you can have it within your lovely laptop even mobile phone. This Metaheuristics for Hard Optimization: Methods and Case Studies having great arrangement in word in addition to layout, so you will not experience uninterested in reading.

**Evelyn Rodrigue:**

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**Mindy Arredondo:**

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