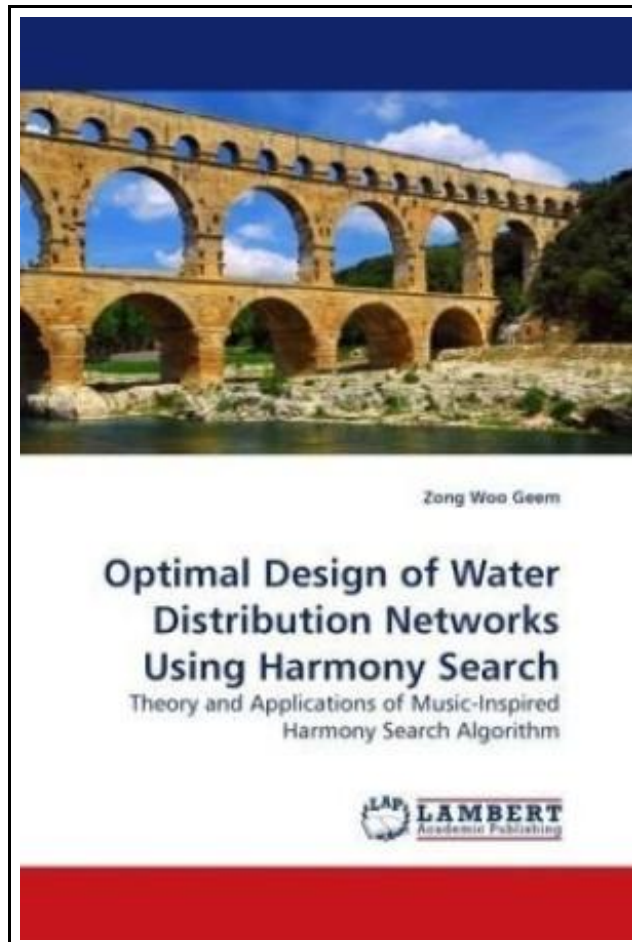


Optimal Design of Water Distribution Networks Using Harmony Search



Filesize: 2.37 MB

Reviews

This ebook is very gripping and fascinating. Sure, it is engage in, nevertheless an amazing and interesting literature. It is extremely difficult to leave it before concluding, once you begin to read the book.

(Ms. Ora Buckridge)

OPTIMAL DESIGN OF WATER DISTRIBUTION NETWORKS USING HARMONY SEARCH



Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Theory and Applications of Music-Inspired Harmony Search Algorithm | Traditional mathematical optimization methods, such as linear programming (LP), nonlinear programming (NLP) and dynamic programming (DP), often have drawbacks in practice. To overcome these drawbacks, various meta-heuristic optimization techniques have been developed. This study proposes a new meta-heuristic algorithm which mimics musical performance, and names as Harmony Search (HS). The HS algorithm is applied to five problems: a continuous function optimization, a hydrologic parameter calibration, a traveling salesman problem, an optimal design of water supply network, and an optimal expansion of water supply network. The comparison of solutions obtained by HS and other optimization techniques shows that the HS algorithm can find better solutions in less number of iterations. The new algorithm can solve continuous-variable problems as well as discrete-variable problems without unnecessary restrictions imposed by calculus-based algorithms. | Format: Paperback | Language/Sprache: english | 171 gr | 224x152x12 mm | 116 pp.



[Read Optimal Design of Water Distribution Networks Using Harmony Search Online](#)



[Download PDF Optimal Design of Water Distribution Networks Using Harmony Search](#)

You May Also Like



Great Powers VS Weak States: The Case of Cyprus

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | From Colonial Conflict to a Federal Solution? | This book analyses the interaction between the international and the constitutional dimensions of the Cyprus Problem from Colonial Conflict...

[Read ePub »](#)



The 37th Parallel

Condition: New. Publisher/Verlag: Random House UK | The Secret Truth Behind America's UFO Highway | The 37th Parallel tells the true story of a computer programmer who tracks paranormal events along a 3,000-mile stretch through...

[Read ePub »](#)



Binary Integer Optimization Problems

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Implementation of a Branch and Bound Algorithm to Solve Binary Integer Optimization Problems | Many problems that arise in manufacturing and socio-economic systems, such as machine scheduling,...

[Read ePub »](#)



Turkey - A regional power? The Case of Turkish Foreign Policy

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | The manuscript comprises an analysis of Turkish foreign policy its roots, evolution and current state. The theoretical part encompasses description of foreign policy analysis as well as...

[Read ePub »](#)



Theory of WiMAX

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Understanding WiMAX, VoIP traffic scheduling in WiMAX Network | WiMAX technology is presently one of the most promising global telecommunication systems. Great hopes and important investments have...

[Read ePub »](#)