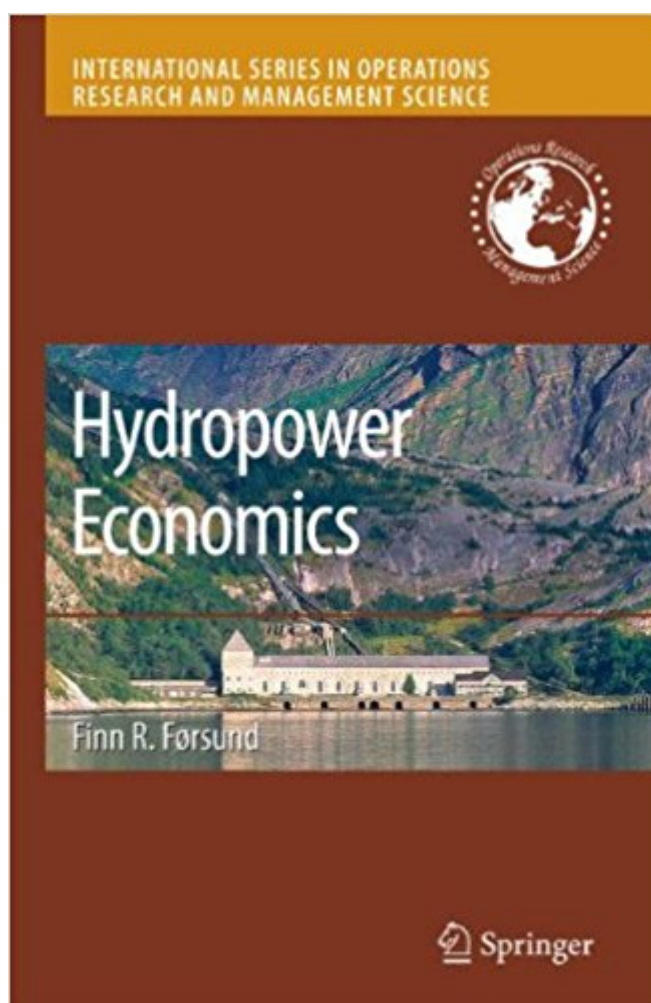


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Hydropower Economics (International Series In Operations Research & Management Science)



Synopsis

There are few more urgent topics in today's world, so full of ecological uncertainty. Hydropower Economics uses various econometric measures to examine sustainable alternative energy sources. It kicks off by modeling hydropower, yes, but it does not end there. Forsund has extended his model to include thermal power and wind power, too – forms of alternative energy that are taking on an ever larger profile.

Book Information

Series: International Series in Operations Research & Management Science (Book 112)

Hardcover: 266 pages

Publisher: Springer; 2007 edition (October 8, 2007)

Language: English

ISBN-10: 0387730265

ISBN-13: 978-0387730264

Product Dimensions: 6.1 x 0.7 x 9.2 inches

Shipping Weight: 1 pounds

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Customer Reviews

From the reviews: "This book claims that if one is to correctly comprehend deregulation in electricity markets, then one must first develop an appreciation for the optimal use of hydro and thermal power. | this book would have profited from a thorough review of the extant literature. | it is important to note that the author deals well with his selected topics. | I recommend this book to all readers who wish to learn more about the economics of hydroelectric power." (Amitrajeet A. Batabyal, Interfaces, Vol. 39 (1), January-February, 2009)

HYDROPOWER ECONOMICS examines sustainable alternate energy sources beginning with modeling hydropower and extending the model to include thermal power and wind power. The book will use various econometric measures, equilibrium metrics, OR methods, and DEA/productivity

analyses to analyze and model the optimal use of these alternate energy sources. Because these problems are dynamic in nature, dynamic methods are used to model the problems. The book derives results on the allocation of the amounts of alternate sources of energy (water, thermal, and wind) required to produce electricity at acceptable levels over time. Graphic illustrations of the analytical and mathematical modeling used to reach research conclusions are used throughout the book. In addition to the analyses, various market scenarios are discussed and how effective market systems may be in delivering electric power at acceptable and sustainable levels of supply, cost, and price. Productivity frontiers (benchmarks) are outlined in the book. These productivity frontiers or benchmarks are established from data derived from the Scandinavian experience. Optimal solutions for sustainable alternate energy systems at acceptable costs are outlined in the monograph. Å

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