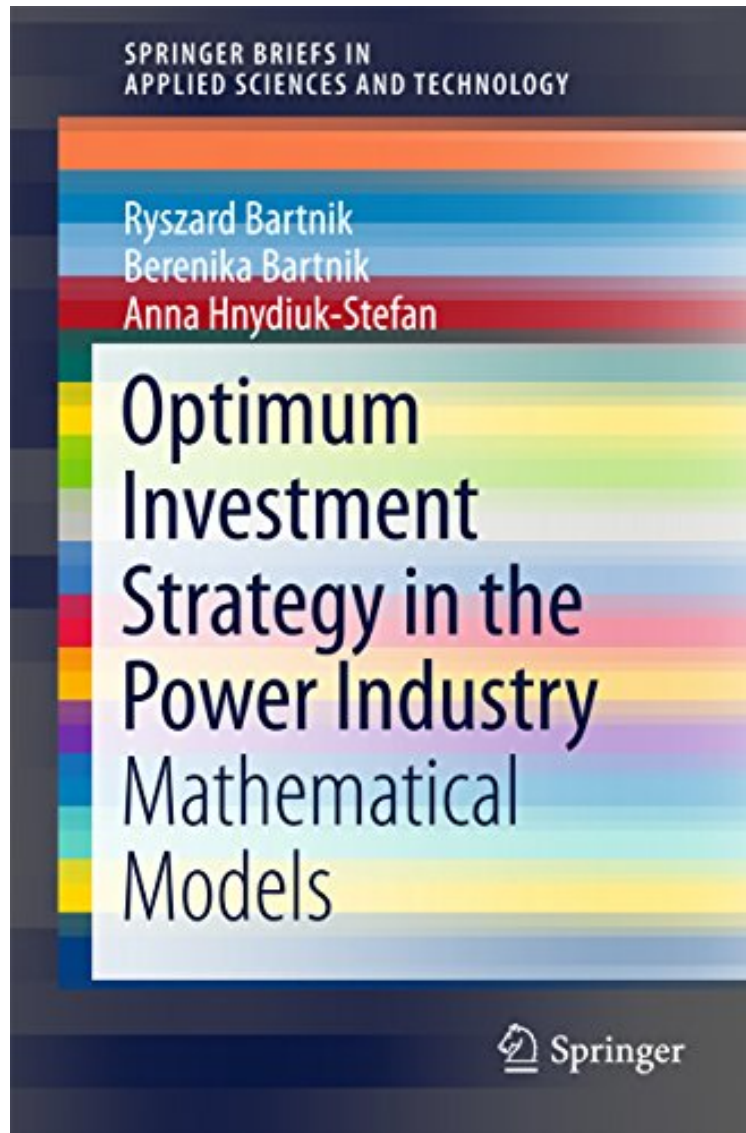


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Optimum Investment Strategy in the Power Industry: Mathematical Models (SpringerBriefs in Applied Sciences and Technology)

Ryszard Bartnik, Berenika Bartnik, Anna Hnydiuk-Stefan
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This book presents an innovative methodology for identifying optimum investment strategies in the power industry. To do so, it examines results including, among others, the impact of oxy-fuel technology on CO₂ emissions prices, and the specific cost of electricity production. The technical and economic analysis presented here extend the available knowledge in the field of investment optimization in energy engineering, while also enabling investors to make decisions involving its application. Individual chapters explore the potential impacts of different factors like environmental charges on costs connected with investments in the power sector, as well as discussing the available technologies for heat and power generation. The book offers a valuable resource for researchers, market analysts, decision makers, power engineers and students alike.

About the Author Professor Ryszard Bartnik is a power engineering researcher and scientist. His fields of specialization are heat and power generating technologies and power management. He is interested in the technical and economic effects of coal fired and natural gas fired heat and power generating plants. After having worked at the Silesian University of Technology as academic teacher and at design offices, he currently is professor at the Opole University of Technology. He is still interested in technical and economical problems of power plants and publishing connected with these problems some new articles as well as a new and very interesting book not only in Poland. He is the author and co-author of 7 books, among them "Conversion of Coal-Fired Power Plants to Cogeneration and Combined-Cycle. Thermal and Economic Effectiveness", Springer, London 2011, "The Modernization Potential of Gas Turbines in the Coal-Fired Power Industry. Thermal and Economic Effectiveness", Springer, London 2013, "Combined cycle power plants. Thermal and economic effectiveness", WNT, Warszawa 2009, 2012, (in Polish), Economic Account in the Power Industry, Wydawnictwo WNT, Warszawa 2014 (in Polish).