

### Liberating Energy from Carbon: Introduction to Decarbonization (Lecture Notes in Energy)

Nazim Muradov



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*Liberating Energy from Carbon* analyzes energy options in a carbon-constrained world. Major strategies and pathways to decarbonizing the carbon-intensive economy are laid out with a special emphasis on the prospects of achieving low-risk atmospheric  $CO_2$  levels. The opportunities and challenges in developing and bringing to market novel low and zero-carbon technologies are highlighted from technical, economic and environmental viewpoints. This book takes a unique approach by treating carbon in a holistic manner—tracking its complete transformation chain from fossil fuel sources to the unique properties of the  $CO_2$  molecule, to carbon capture and storage and finally, to  $CO_2$  industrial utilization and its conversion to value-added products and fuels. This concise but comprehensive sourcebook guides readers through recent scientific and technological developments as well as commercial projects that aim for the decarbonization of the fossil fuel-based economy and  $CO_2$  utilization that will play an increasingly important role in the near-and mid-term future. This book is intended for researchers, engineers, and students working and studying in practically all areas of energy technology and alternative energy sources and fuels.

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