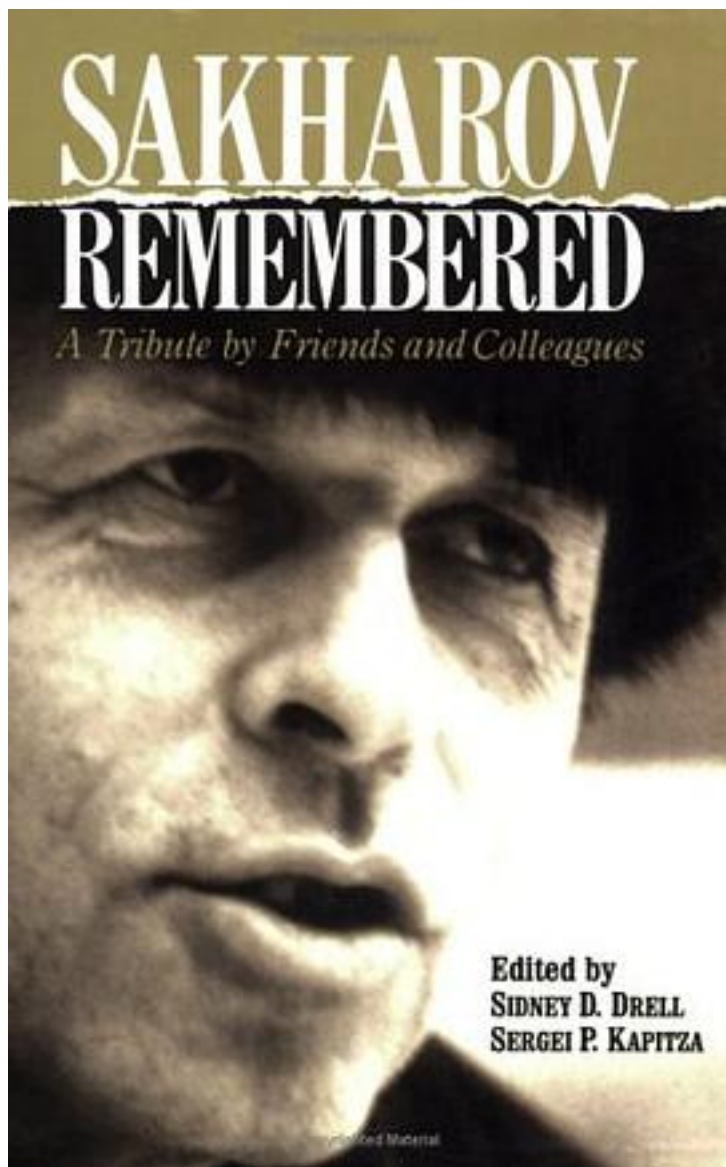


Sakharov Remembered



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著者:Sidney D. Dress

出版者:AIP Press

出版时间:1991-05

装帧:Paperback

isbn:9780883188521

"Blurb & Contents" Market: Physicists, astronomers, chemists, engineers, and graduate students. "Martin Bailyn's Survey is a marvelous resource for any teacher of thermal physics...The writing is clear; the references are extensive. If the textbook from which you are teaching leaves you dissatisfied with its treatment of a specific topic, Bailyn's compendium is a good place to look for a different or a deeper presentation." American Journal of Physics This work presents the application and theory of thermodynamics, including its formation according to statistical mechanics and its extension into Special Relativity. A unique feature of this book is the addition of the history of thermodynamics, designed to illustrate and emphasize the development of present day concepts. This book provides valuable insights into how these concepts evolved by discussing the pioneering work of Galileo, Clausius, Kelvin, and others. The inclusion of both a complete survey of the subject, and an historical background (not found in other books) make this a valuable reference for individuals and graduate students. Partial Contents: 1. Temperature and equilibrium. 2. Heat and work. 3. The emergence of thermodynamics. 4. Entropy and the Second Law. 5. Special topics. 6. Equilibrium thermodynamics. 7. Applications. 8. Secondary Effects; the Third Law of Thermodynamics. 9. Phase Transitions. 10. Microscopic Theories. 11. Statistical Mechanics. 12. Thermodynamics in Special Relativity.

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