



# Time's Arrows and Quantum Measurement

*Lawrence S. Schulman*

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## **Time's Arrows and Quantum Measurement** Lawrence S. Schulman

This book is an introduction to the arrow of time in thermodynamics and cosmology, and develops a new quantum measurement theory in which the foregoing concepts play an essential role. The first chapter is an overview and "route map" and is followed by an exposition of irreversibility, the expansion of the universe and other arrows of time. The author examines the thesis that the thermodynamic arrow follows the cosmological one, and in doing so extends traditional statistical mechanics. The second part of the book presents a new theory of quantum measurement and possible experimental tests. This theory incorporates the extended statistical mechanics in an essential way. The last chapter discusses open experimental and theoretical issues. Written in a lively and accessible style, the text is liberally sprinkled with exercises. Each chapter ends with a resources section that includes notes, further reading, and technical appendices. This book will fascinate graduate students in physics, cosmology, and the philosophy of physics.

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