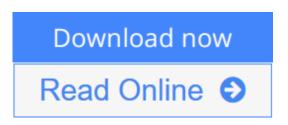


# Physics of Neutrinos: and Application to Astrophysics (Theoretical and Mathematical Physics)

By Masataka Fukugita, Tsutomu Yanagida



**Physics of Neutrinos: and Application to Astrophysics (Theoretical and Mathematical Physics)** By Masataka Fukugita, Tsutomu Yanagida

This useful text provides a survey of the current state of research into the physics of neutrinos. It gives a global view of the areas of physics in which neutrinos play important roles, including astrophysics and cosmology.

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"This neutrino survey is presented in a form accessible to non-specialists and graduate students, and will also be useful as a handbook for researchers in this field." (Physicalia 2005, 57, page 179)

"Professors Fukugita and Yanagida have put together, in one volume of 11 chapters and more than 500 pages, a well presented and well laid out treatise on the Physics of Neutrinos and Applications to Astrophysics. Each chapter is essentially self-contained and as such the book is accessible to readers at all levels." (Professor K. Green (University of Sussex & Rutherford Appleton Laboratory), Contemporary Physics 2004, vol. 45, page 362)

"This book provides a survey of the current state of research into the physics of neutrinos, which has observed important development during the last decade. ... This neutrino survey is presented in a form accessible to non-specialists and graduate students, and will also be useful as a handbook for researchers in this field. ... Starting from the standard theory of electroweak interactions, the key notions are explained in detail and the fundamental equations are derived explicitly, so that readers can understand their precise content." (Laurent Favart, Physicalia, Vol. 57 (2), 2005)

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### From the Back Cover

This book provides a survey of the current state of research into the physics of neutrinos. It is presented in a form accessible to non-specialists and graduate students, but will also be useful as a handbook for researchers in this field. The reader finds here a global view of the areas of physics in which neutrinos play important roles, including astrophysics and cosmology. The book is intended to be self-contained: Starting from the standard theory of electroweak interactions, the key notions are explained in detail and the fundamental equations are derived explicitly, so that readers can understand their precise content. Prime emphasis is given to the mass of neutrinos and its implications. The first eight chapters deal mostly with well-established knowledge whilst later chapters probe into research problems.

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