

An Introduction to
**ASTRONOMY AND
ASTROPHYSICS**
Second Edition

Pankaj Jain



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An Introduction To Astronomy And Astrophysics

Frank H. Shu



An Introduction To Astronomy And Astrophysics:

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for their formation and evolution The second part of the book provides an overview of the wide range of cosmological models and discusses the Big Bang and the expansion of the Universe Written in an accessible style that avoids complex mathematics and illustrated in colour throughout this book is suitable for self study and will appeal to amateur astronomers as well as undergraduate students It contains numerous helpful learning features such as boxed summaries student exercises with full solutions and a glossary of terms The book is also supported by a website hosting further teaching materials *Astrophysics*

, [An Introduction to Distance Measurement in Astronomy](#) Richard de Grijs, 2011-09-20 Distance determination is an essential technique in astronomy and is briefly covered in most textbooks on astrophysics and cosmology It is rarely covered as a coherent topic in its own right When it is discussed the approach is frequently very dry splitting the teaching into for example stars galaxies and cosmologies and as a consequence books lack depth and are rarely comprehensive Adopting a unique and engaging approach to the subject *An Introduction to distance Measurement in Astronomy* will take the reader on a journey from the solar neighbourhood to the edge of the Universe discussing the range of distance measurements methods on the way The book will focus on the physical processes discussing properties that underlie each method rather than just presenting a collection of techniques As well as providing the most compressive account of distance measurements to date the book will use the common theme of distance measurement to impart basic concepts relevant to a wide variety of areas in astronomy astrophysics The book will provide an updated account of the progress made in a large number of subfields in astrophysics leading to improved distance estimates particularly focusing on the underlying physics Additionally it will illustrate the pitfalls in these areas and discuss the impact of the remaining uncertainties in the complete understanding of the Universes at large As a result the book will not only provide a comprehensive study of distance measurement but also include many recent advances in astrophysics

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