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a substantial update of this award winning and highly regarded cosmology  
textbook for advanced undergraduates in physics and astronomy

Einstein's general theory of relativity is introduced in this advanced  
undergraduate textbook. Topics covered include geometric formulation of special  
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In this book, basic introduction to the universe, I have discussed the universe in

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general relativity is a subject that most undergraduates in physics are particularly curious about but it has a reputation for being very difficult this book provides as gentle an introduction to general relativity as possible leading you through the necessary mathematics in order to arrive at important results of course you cannot avoid the mathematics of general relativity altogether but using this book you can gain an appreciation of tensors and differential geometry at a pace you can keep up with early chapters build up to a complete derivation of einstein s equations while the final chapters cover the key applications on black holes cosmology and gravitational waves it is designed as a coursebook with just enough material to cover in a one semester undergraduate class but it is also accessible to any numerate readers who wish to appreciate the power and beauty of einstein s creation for themselves

a contemporary and complete introduction to astrophysics for astronomy and physics majors taking a two semester survey course

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provides a cumulative guide to the general lessons of modern scientific cosmology as well as the historical background that connects the nature of the universe with the reader's place in it provided by publisher

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