

Science Of Interstellar

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The Physics of the Interstellar Medium
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a journey through the otherworldly science behind christopher nolan s award winning film interstellar from executive producer and nobel prize winning physicist kip thorne interstellar from acclaimed filmmaker christopher nolan takes us on a fantastic voyage far beyond our solar system yet in the science of interstellar kip thorne the nobel prize winning physicist who assisted

nolan on the scientific aspects of interstellar shows us that the movie's jaw dropping events and stunning never before attempted visuals are grounded in real science thorne shares his experiences working as the science adviser on the film and then moves on to the science itself in chapters on wormholes black holes interstellar travel and much more thorne's scientific insights many of them triggered during the actual scripting and shooting of interstellar describe the physical laws that govern our universe and the truly astounding phenomena that those laws make possible interstellar and all related characters and elements are trademarks of and warner bros entertainment inc s14

to create the exotic materials and technologies needed to make stargates and warp drives is the holy grail of advanced propulsion a less ambitious but nonetheless revolutionary goal is finding a way to accelerate a spaceship without having to lug along a gargantuan reservoir of fuel that you blow out a tailpipe tethers and solar sails are conventional realizations of the basic idea there may now be a way to achieve these lofty objectives making starships and stargates will have three parts the first will deal with information about the theories of relativity needed to understand the predictions of the effects that make possible the propulsion techniques and an explanation of those techniques the second will deal with experimental investigations into the feasibility of the predicted effects that is do the effects exist and can they be applied to propulsion the third part of the book the most speculative will examine the question what physics is needed if we are to make wormholes and warp drives is such physics plausible and how might we go about actually building such devices this book pulls all of that material together from various sources updates and revises it and presents it in a coherent form so that those interested will be able to find everything of relevance all in one place

this third edition of the physics of the interstellar medium continues to introduce advanced undergraduates to the fundamental processes and the wide range of disciplines needed to understand observations of the interstellar medium and its role in the milky way galaxy the book is suitable for undergraduate students studying physics astronomy and astrophysics the book also provides concise and straightforward discussions of interstellar physics and chemistry that are useful for more experienced readers the book leads readers through the range of physical processes operating on both large and small scales that occur in the interstellar medium it explores the relationship between the dusty tenuous gas in interstellar space and the formation of stars and planets this new edition also describes exciting developments in the field of astrochemistry and its interaction with interstellar physics and the roles played by interstellar dust grains in interstellar physics and chemistry simple models in each chapter together with problems at the end of each chapter encompass interdisciplinary applications in atomic molecular solid

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