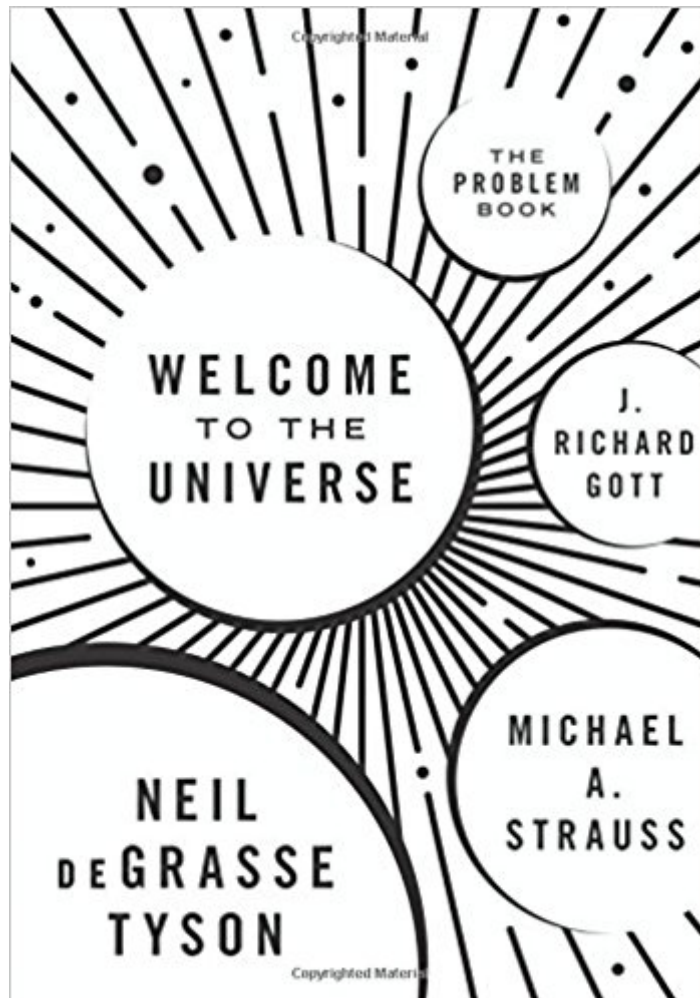




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Welcome To The Universe: The Problem Book



Synopsis

Here is the essential companion to *Welcome to the Universe*, a New York Times bestseller that was inspired by the enormously popular introductory astronomy course for non science majors that Neil deGrasse Tyson, Michael A. Strauss, and J. Richard Gott taught together at Princeton. This problem book features more than one hundred problems and exercises used in the original course—ideal for anyone who wants to deepen their understanding of the original material and to learn to think like an astrophysicist. Whether you're a student or teacher, citizen scientist or science enthusiast, your guided tour of the cosmos just got even more hands-on with *Welcome to the Universe: The Problem Book*. The essential companion book to the acclaimed bestseller. Features the problems used in the original introductory astronomy course for non science majors at Princeton University. Organized according to the structure of *Welcome to the Universe*, empowering readers to explore real astrophysical problems that are conceptually introduced in each chapter. Problems are designed to stimulate physical insight into the frontier of astrophysics. Problems develop quantitative skills, yet use math no more advanced than high school algebra. Problems are often multipart, building critical thinking and quantitative skills and developing readers' insight into what astrophysicists do. Ideal for course use—either in tandem with *Welcome to the Universe* or as a supplement to courses using standard astronomy textbooks—or self-study. Tested in the classroom over numerous semesters for more than a decade. Prefaced with a review of relevant concepts and equations. Full solutions and explanations are provided, allowing students and other readers to check their own understanding.

Book Information

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Customer Reviews

"This book provides a very valuable resource for anyone who wants to acquire a reasonably quantitative understanding of introductory astronomy. The questions cover a broad range of interesting topics, and the solutions are thorough and often enlightening, providing additional insights into the subject matter."--Alex Filippenko, University of California, Berkeley

"The difference between a good astronomy course and a great astronomy course is great problems. This book is a gold mine of great problems for introductory astronomy, problems that can be solved with high school algebra and run the gamut from earth-smashing asteroids to neutron stars, black holes, the fate of the universe, and the search for life on other worlds. It will be a valuable resource for anyone teaching introductory astronomy and an exhilarating challenge for students who want to sharpen their wits against the cosmos."--David Weinberg, Ohio State University

"A fantastic asset. The hardest part of teaching introductory astronomy courses is writing engaging, informative problems at the appropriate level. This book provides a treasure trove of wonderfully instructive material that is much better than anything else out there. I will be using Tyson, Strauss, and Gott for a long time to come."--James H. Applegate, Columbia University

"A marvelous compendium. This companion book demonstrates in a playful manner how, with no more than high school algebra, we can obtain a deeper appreciation of the properties of the infinitely large and small, and deepen our conversation with the cosmos."--Trinh X. Thuan, University of Virginia

"A wonderful collection of introductory problems that convey the wonders of the universe and fundamental concepts in astronomy through specific examples and numbers. A fantastic resource for the classroom and aspiring astronomers."--Abraham Loeb, Harvard University

"Microorganisms on Europa, colliding black holes, cosmic inflation, and much more are covered in this expansive and thoughtfully selected collection of exciting problems in astrophysics--even a two-dimensional Tardis appears! Both students and experienced astronomers should come away enriched through study of these problems and the techniques presented to crack them."--W. Niel Brandt, Pennsylvania State University

Neil deGrasse Tyson is director of the Hayden Planetarium at the American Museum of Natural History. He is the author of many books, including *Space Chronicles: Facing the Ultimate Frontier*, and the host of the Emmy-winning documentary *Cosmos: A Spacetime Odyssey*. Michael A. Strauss is professor of astrophysics at Princeton University. J. Richard Gott is professor emeritus of astrophysics at Princeton University. His other books include *The Cosmic Web: Mysterious Architecture of the Universe* (Princeton).

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