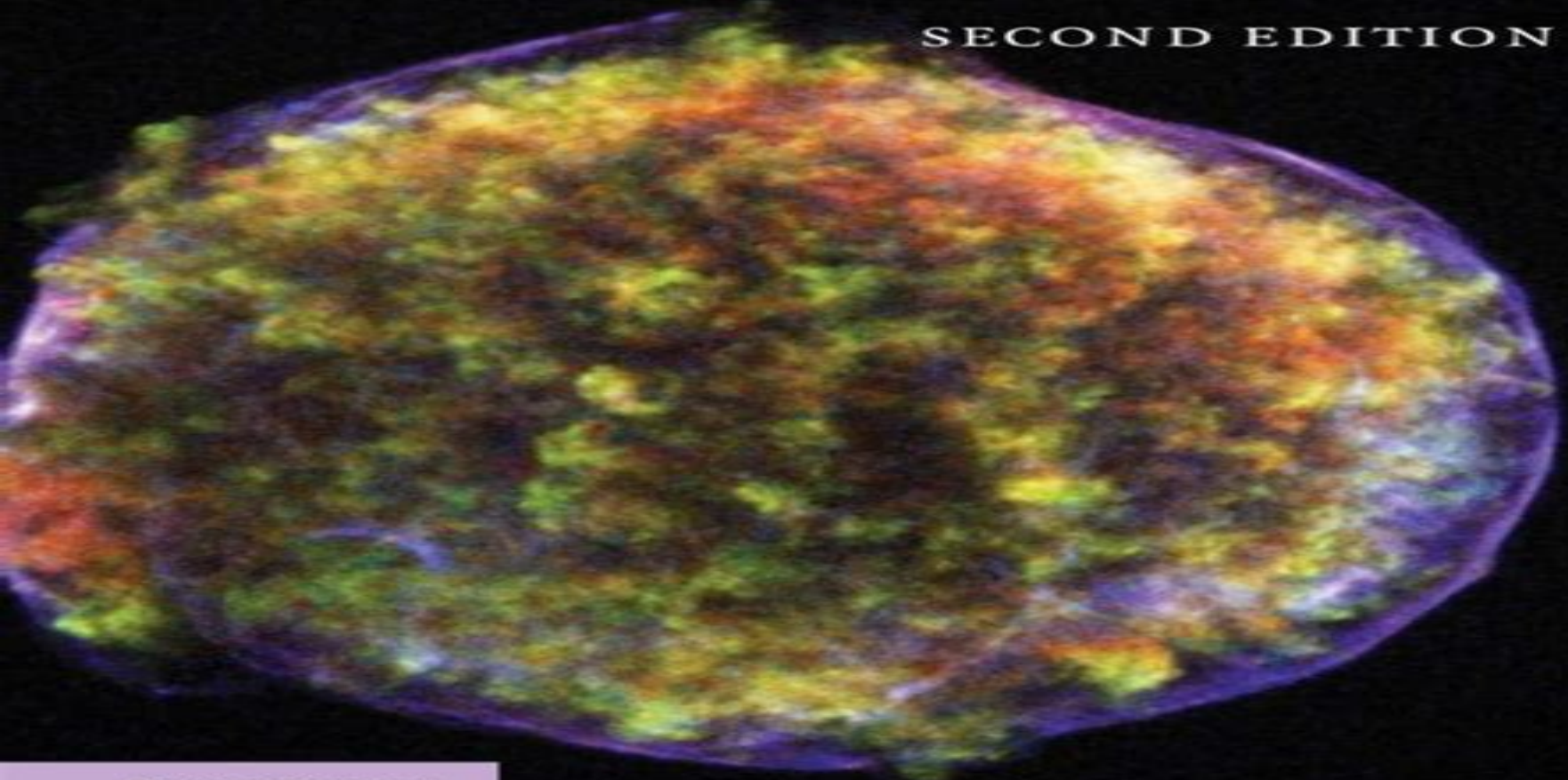


J. CRAIG WHEELER

Cosmic Catastrophes

Exploding Stars, Black Holes,
and Mapping the Universe

SECOND EDITION



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Cosmic Catastrophes Exploding Stars Black Holes And Mapping The Universe

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and the Milky Way is only one of a billion galaxies in the known universe Packed with fascinating facts and stunning photography this book examines the Galaxy humans call home and travels light years away to the domain of phenomena such as the Oort cloud Things That Go Bump in the Universe C. Renée James,2023-11-14 This new book explores the pioneering field of transient or time domain astronomy the incredible discoveries being made the tools that we use to detect these cosmic events and the aspects that continue to puzzle observers and theorists In an engaging style accessible to the layperson the astronomer and popular science author gives us an up to date overview of the transient universe and explains how astronomers came to see the cosmos as a dynamic place rather than a static one **Nature , Gravity's Fatal Attraction** Mitchell Begelman,Martin Rees,2021 This lavishly illustrated text by two leading experts presents all the current evidence for black holes and their cosmic context **Global Elite Migrations** Irina Isaakyan,2024-09-23 This open access book explores the lives and careers of migrating artists with the purpose to understand how they make use of their migrant networks and how this process interacts with decisions they make about immigration and career development Situated at the crossroads of Migration Studies and Elite Studies this interdisciplinary research is based on sixty interpretive biographic interviews with opera singers from the former Soviet bloc who work in various places across Europe and beyond The book raises the question to what extent they exercise agency as migrants and professionals and to what extent they preserve their professional elitism on the transnational level The case of these migrant artists serves to illuminate the dynamics of a wider phenomenon global elite migrations which is compared with an intergalactic journey Through this sociological metaphor the book offers a new analytical framework to think about the agency network nexus **Beyond Extreme Physics** Rosen Publishing Group,2008 Contains seven scientific essays that address topics of extreme physics including black holes inconstant constants the String Theory and more What Are Gamma-Ray Bursts? Joshua S. Bloom,2011-01-10 A brief cutting edge introduction to the brightest cosmic phenomena known to science Gamma ray bursts are the brightest and until recently among the least understood cosmic events in the universe Discovered by chance during the cold war these evanescent high energy explosions confounded astronomers for decades But a rapid series of startling breakthroughs beginning in 1997 revealed that the majority of gamma ray bursts are caused by the explosions of young and massive stars in the vast star forming cauldrons of distant galaxies New findings also point to very different origins for some events serving to complicate but enrich our understanding of the exotic and violent universe What Are Gamma Ray Bursts is a succinct introduction to this fast growing subject written by an astrophysicist who is at the forefront of today s research into these incredible cosmic phenomena Joshua Bloom gives readers a concise and accessible overview of gamma ray bursts and the theoretical framework that physicists have developed to make sense of complex observations across the electromagnetic spectrum He traces the history of remarkable discoveries that led to our current understanding of gamma ray bursts and reveals the decisive role these phenomena could play in the grand pursuits of twenty first century astrophysics from studying

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