

An Introduction To Radio Astronomy Burke

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radio astronomy uses unique observational techniques and offers the only way to investigate many phenomena in the universe this book by two founders of the field presents both a clear introduction to radio telescopes and techniques and a broad overview of the radio universe the material in this new edition has been expanded and updated reflecting the developments in the field over the last decade new material reflects the increasing use of aperture synthesis and very long baseline interferometry and the further exploitation of molecular spectral lines a new chapter is devoted to the fundamentals of radiation and propagation theory the second half of the book constitutes a review of radio observations of our milky way galaxy wide ranging and clearly written this book provides a thorough and up to date introduction to the subject for graduate students and an invaluable overview for researchers turning to radio astronomy for the first time

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written by two prominent figures in radio astronomy this well established graduate level textbook is a thorough introduction to radio telescopes and techniques it is an invaluable overview for students and researchers turning to radio astronomy for the first time the first half of the book describes how radio telescopes work from basic antennas and single aperture dishes through to full aperture synthesis arrays it includes reference material on the fundamentals of astrophysics and observing techniques the second half of the book reviews radio observations of our galaxy stars pulsars radio galaxies quasars and the cosmic microwave background this third edition describes the applications of fundamental techniques to newly developing radio telescopes including ata lofar mwa ska and alma which all require an understanding of aspects specific to radio astronomy two entirely new chapters now cover cosmology from the fundamental concepts to the most recent results of wmap

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how vera rubin convinced the scientific community that dark matter might exist persevering despite early dismissals of her work

we now know that the universe is mostly dark made up of particles and forces that are undetectable even by our most powerful telescopes the discovery of the possible existence of dark matter and dark energy signaled a copernican like revolution in astronomy not only are we not the center of the universe neither is the stuff of which we re made astronomer vera rubin 1928 2016 played a pivotal role in this discovery by showing that some astronomical objects seem to defy gravity s grip rubin helped convince the scientific community of the possibility of dark matter in bright galaxies dark matter and beyond ashley jean yeager tells the story of rubin s life and work recounting her persistence despite early dismissals of her work and widespread sexism in science yeager describes rubin s childhood fascination with stars her education at vassar and cornell and her marriage to a fellow scientist at first rubin wasn t taken seriously she was a rarity a woman in science and her findings seemed almost incredible some observatories in midcentury america restricted women from using their large telescopes rubin was unable to collect her own data until a decade after she had earned her phd still she continued her groundbreaking work driving a scientific revolution she received the national medal of science in 1993 but never the nobel prize perhaps overlooked because of her gender she s since been memorialized with a ridge on mars an asteroid a galaxy and most recently the vera c rubin observatory the first national observatory named after a woman

boys life is the official youth magazine for the boy scouts of america published since 1911 it contains a proven mix of news nature sports history fiction science comics and scouting

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