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Her current research is mainly on clusters of galaxies; their contents-dark matter, hot gas, galaxies, active galactic nuclei-and what they reveal about the contents of the universe and how galaxies form and evolve. Before going to Michigan State, Mark worked in the Office of Public Outreach at the Space Telescope, where he developed museum exhibitions about the Hubble Space Telescope and was the scientist behind NASA's Hubble Site. Donahue, Nicholas Schneider, Mark Voit She grew up on a farm in Nebraska and received a B.A. in physics from MIT, where she began her research career as an X-ray astronomer. 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Between the births of Sebastian and Angela, Megan qualified for and ran the Boston Marathon. Megan is married to Mark Voit, and they collaborate on many projects, including this textbook and the raising of their children, Michaela, Sebastian, and Angela. Off the job, he enjoys exploring the outdoors with his family and figuring out how things work.Mark Voit is a professor in the Department of Physics and Astronomy at Michigan State University. 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These days, Megan runs, orienteers, and plays piano and bass guitar whenever her children allow it.Nicholas Schneider is an associate professor in the Department of Astrophysical and Planetary Sciences at the University of Colorado and a researcher in the Laboratory for Atmospheric and Space Physics. Dark Matter and Dark Energy.....Page 491Learning Goals.....Page 49717.1 The Big Bang.....Page 49817.2 Evidence for the Big Bang.....Page 50717.3 The Big Bang and Inflation.....Page 51217.4 Observing the Big Bang for Yourself.....Page 517Exercises and Problems.....Page 522Cosmic context: Figure 17.5. The Early Universe.....Page 505Cosmic calculations 17.1 Temperature of Background Radiation.....Page 509Special topic: The Steady State Universe.....Page 510Special topic: How Will the Universe End?.....Page 510Cosmic context: Part V at a Glance. Report DMCA The Essential Cosmic Perspective, Sixth Edition retains all of the features that have made this text so popular and effective. She has a Ph.D. in astrophysics from the University of Colorado, for a thesis on theory and optical observations of intergalactic and intracluster gas. The Sixth Edition includes new visual foldout diagrams on the scale of space and time, key concepts in understanding the scope of the universe and individual objects within it. In 1991, he received the National Science Foundation's Presidential Young Investigator Award. The textbook package also includes updated supplements to support the book's pedagogy, making it the most effective text in the one-semester astronomy market. That thesis won the 1993 Trumpler Award from the Astronomical Society for the Pacific for an outstanding astrophysics doctoral dissertation in North America. 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He continued his studies at the California Institute of Technology, where he was a research fellow in theoretical astrophysics, and then moved on to Johns Hopkins University as a Hubble Fellow. Mark is also author of the popular book Hubble Space Telescope: New Views of the Universe. --This text refers to the paperback edition. VDOC.PUB Download Embed This document was uploaded by our user. New features and updates based on current research will engage students as they learn about astronomy. When not working, he enjoys participating in masters swimming and in the daily adventures of life with his wife, Lisa; his children, Grant and Brooke; and his dog, Cosmo. He also proposed the idea for and helped develop both the Colorado Scale Model Solar System on the CU-Boulder campus and the Voyage Scale Model Solar System on the National Mall in Washington, D.C. (He is pictured here with the model Sun.) In addition to this astronomy textbook, he has written college-level textbooks in astrobiology, mathematics, and statistics; two books for the general public, On the Cosmic Horizon (Pearson Addison-Wesley, 2001) and Beyond UFOs (Princeton University Press, 2008); and an award-winning series of children's books that includes Max Goes to the Moon, Max Goes to Mars, Max Goes to Jupiter, and Max's Ice Age Adventure. He is married to coauthor Megan Donahue, and they try to play outdoors with their three children whenever possible, enjoying hiking, camping, running, and orienteering. His research interests include planetary atmospheres and planetary astronomy, with a focus on the odd case of Jupiter's moon Io. He enjoys teaching at all levels and is active in efforts to improve undergraduate astronomy education. Bennett, Megan Donahue, Nicholas O Schneider, Mark Voit Jeffrey O. If you are author/publisher or own the copyright of this documents, please report to us by using this DMCA report form. Reading an H-R Diagram.....Page 347Learning Goals.....Page 35912.1 Star Birth.....Page 36012.2 Life as a Low-Mass Star.....Page 36712.3 Life as a High-Mass Star.....Page 37312.4 Summary of Stellar Lives.....Page 380Exercises and Problems.....Page 386Cosmic calculations 12.1 Conditions for Star Birth.....Page 361Special topic: How Long Is 5 Billion Years?.....Page 372Cosmic context: Figure 12.22. 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Jeffrey Bennett holds a B.A. (1981) in biophysics from the University of California, San Diego, and an M.S. and Ph.D. (1987) in astrophysics from the University of Colorado, Boulder. 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The uploader already confirmed that they had the permission to publish it. He earned his B.A. in astrophysical sciences at Princeton University and his Ph.D. in astrophysics at the University of Colorado in 1990. The Seasons.....Page 63Common misconceptions: High Noon.....Page 65Common misconceptions: Sun Signs.....Page 67Common misconceptions: Moon in the Daytime.....Page 69Common misconceptions: The "Dark Side" of the Moon.....Page 71Common misconceptions: Shadows and the Moon.....Page 72Learning Goals.....Page 833.1 The Ancient Roots of Science.....Page 843.2 Ancient Greek Science.....Page 88Cosmic calculations 3.1 Eratosthenes Measures Earth.....Page 913.4 The Nature of Science.....Page 97Exercises and Problems.....Page 107Common misconceptions: Columbus and a Flat Earth.....Page 89Cosmic calculations 3.2 Kepler's Third Law.....Page 95Cosmic context: Figure 3.22. Megan was a staff astronomer at the Space Telescope Science Institute until 2003, when she joined the MSU faculty. This package contains: The Essential Cosmic Perspective, Sixth Edition Year: 2,010 Edition: 6 Pages: 639 Pages In File: 639 Language: English Topic: 265 Issue: 2011 12 30 Identifier: 0321718232,9780321718235 Paginated: 1 Org File Size: 59,615,366 Extension: pdf Tags: Физика Астрономия и астрофизика Top: Cover.....Page 1Title Page.....Page 4Copyright Page.....Page 5Contents.....Page 8Preface.....Page 12Acknowledgments.....Page 17About the Authors.....Page 21How to Succeed in Your Astronomy Course.....Page 23Foreword: The Meaning of The Cosmic Perspective.....Page 25Key to Wavelength Icons on Figures.....Page 27Learning Goals.....Page 281.1 Our Modern View of the Universe.....Page 291.2 The Scale of the Universe.....Page 371.3 Spaceship Earth.....Page 42Exercises and Problems.....Page 50Basic Astronomical Objects, Units, and Motions.....Page 32Cosmic context: Figure 1.2. 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