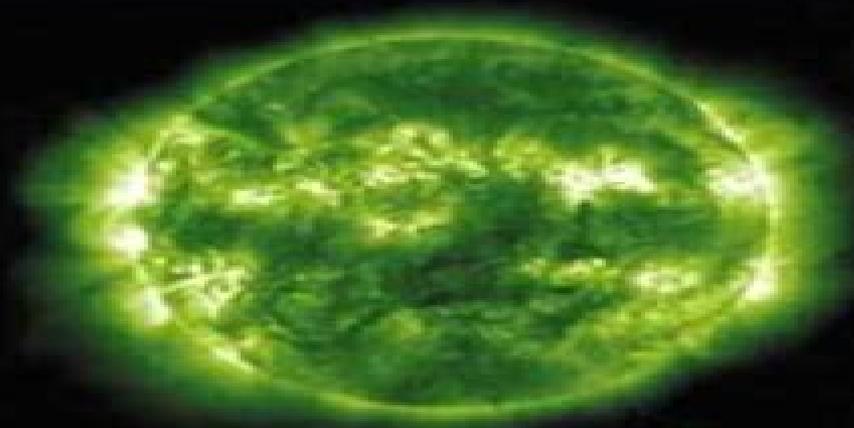


# Lecture-Tutorials

FOR INTRODUCTORY ASTRONOMY



Edward E. Prather, Timothy F. Slater, Jeffrey P. Adams, Gina Brissenden

THIRD EDITION

# Lecture Tutorials For Introductory Astronomy 3rd Edition

**Rosina Ehmann**



### **Lecture Tutorials For Introductory Astronomy 3rd Edition:**

*African Cultural Astronomy* Jarita Holbrook, R. Thebe Medupe, Johnson O. Urama, 2008-01-01 This is the first scholarly collection of articles focused on the cultural astronomy of Africans It weaves together astronomy anthropology and Africa and it includes African myths and legends about the sky alignments to celestial bodies found at archaeological sites and at places of worship rock art with celestial imagery and scientific thinking revealed in local astronomy traditions including ethnomathematics and the creation of calendars Authors include astronomers Kim Malville Johnson Urama and Thebe Medupe archaeologist Felix Chami and geographer Michael Bonine and many new authors As an emerging subfield of cultural astronomy African cultural astronomy researchers are focused on training students specifically for doing research in Africa The first part of the volume contains lessons and exercises to help the beginning student of African cultural astronomy Included are exercises in archaeoastronomy cultural anthropology and naked eye astronomy penned by authors who use these regularly use these methods for their research This collection of lessons and research papers provides a foundation for the cultural astronomy researcher interested in doing work in Africa

**Active Learning in College Science** Joel J. Mintzes, Emily M. Walter, 2020-02-23 This book explores evidence based practice in college science teaching It is grounded in disciplinary education research by practicing scientists who have chosen to take Wieman s 2014 challenge seriously and to investigate claims about the efficacy of alternative strategies in college science teaching In editing this book we have chosen to showcase outstanding cases of exemplary practice supported by solid evidence and to include practitioners who offer models of teaching and learning that meet the high standards of the scientific disciplines Our intention is to let these distinguished scientists speak for themselves and to offer authentic guidance to those who seek models of excellence Our primary audience consists of the thousands of dedicated faculty and graduate students who teach undergraduate science at community and technical colleges 4 year liberal arts institutions comprehensive regional campuses and flagship research universities In keeping with Wieman s challenge our primary focus has been on identifying classroom practices that encourage and support meaningful learning and conceptual understanding in the natural sciences The content is structured as follows after an Introduction based on Constructivist Learning Theory Section I the practices we explore are Eliciting Ideas and Encouraging Reflection Section II Using Clickers to Engage Students Section III Supporting Peer Interaction through Small Group Activities Section IV Restructuring Curriculum and Instruction Section V Rethinking the Physical Environment Section VI Enhancing Understanding with Technology Section VII and Assessing Understanding Section VIII The book s final section IX is devoted to Professional Issues facing college and university faculty who choose to adopt active learning in their courses The common feature underlying all of the strategies described in this book is their emphasis on actively engaging students who seek to make sense of natural objects and events Many of the strategies we highlight emerge from a constructivist view of learning that has gained widespread acceptance in recent years In this view learners make

sense of the world by forging connections between new ideas and those that are part of their existing knowledge base For most students that knowledge base is riddled with a host of naive notions misconceptions and alternative conceptions they have acquired throughout their lives To a considerable extent the job of the teacher is to coax out these ideas to help students understand how their ideas differ from the scientifically accepted view to assist as students restructure and reconcile their newly acquired knowledge and to provide opportunities for students to evaluate what they have learned and apply it in novel circumstances Clearly this prescription demands far more than most college and university scientists have been prepared for *American Book Publishing Record* ,2002 *Lecture Tutorials for Introductory Astronomy* Edward E. Prather,Timothy F. Slater,Jeffrey P. Adams,2008 Funded by the National Science Foundation Lecture Tutorials for Introductory Astronomy is designed to help make large lecture format courses more interactive with easy to implement student activities that can be integrated into existing course structures The Second Edition of the Lecture Tutorials for Introductory Astronomy contains nine new activities that focus on planetary science system related topics and the interactions of Light and matter These new activities have been created using the same rigorous class test development process that was used for the highly successful first edition Each of the 38 Lecture Tutorials presented in a classroom ready format challenges students with a series of carefully designed questions that spark classroom discussion engage students in critical reasoning and require no equipment The Night Sky Position Motion Seasonal Stars Solar vs Sidereal Day Ecliptic Star Charts Fundamentals of Astronomy Kepler s 2nd Law Kepler s 3rd Law Newton s Laws and Gravity Apparent and Absolute Magnitudes of Stars The Parse Parallax and Distance Spectroscopic Parallax Nature of Light in Astronomy The Electromagnetic EM Spectrum of Light Telescopes and Earth s Atmosphere Luminosity Temperature and Size Blackbody Radiation Types of Spectra Light and Atoms Analyzing Spectra Doppler Shift Our Solar System The Cause of Moon Phases Predicting Moon Phases Path of Sun Seasons Observing Retrograde Motion Earth s Changing Surface Temperature and Formation of Our Solar System Sun Size Stars Galaxies and Beyond H R Diagram Star Formation and Lifetimes Binary Stars The Motion of Extrasolar Planets Stellar Evolution Milky Way Scales Galaxy Classification Looking at Distant Objects Expansion of the Universe For all readers interested in astronomy **Books in Print Supplement** ,2002

Lecture-tutorials for Introductory Astronomy, Third Edition Washington State University,2014 **Subject Guide to Books in Print** ,1997 Scientific and Technical Books and Serials in Print ,1989 Forthcoming Books Rose Army,1987 Astronomy Now ,2001 **Journal of the American Statistical Association** American Statistical Association,1999 Lecture Tutorials for Introductory Astronomy - Preliminary Version Jeffrey P. Adams,Edward E. Prather,Timothy F. Slater,Caper,2002-08 For introductory astronomy courses Funded by the National Science Foundation Lecture Tutorials for Introductory Astronomy are designed to help make large lecture format courses more interactive Each of the 29 Lecture Tutorials is presented in a classroom ready format challenges students with a series of carefully designed questions that

spark classroom discussion engage students in critical reasoning and require no equipment *International Books in Print*, 1991 Introductory astronomy Edward E. Prather, 2008 **Lecture Tutorials for Introductory Astronomy** Edward E. Prather, Eric Chaisson, Gina Brissenden, Steve McMillan, 2021-07-30 Funded by the National Science Foundation Lecture Tutorials for Introductory Astronomy 4th Edition is designed to make traditional lecture format courses more interactive These easy to implement student activities can be integrated into any existing course structure Presented in a classroom ready format and requiring no equipment each of the 50 Lecture Tutorials challenges students with a series of questions carefully designed to engage them in critical reasoning and spark classroom discussion Each activity targets one or more specific learning objectives based on education research these activities lead to deeper more complete student understanding through a series of structured questions that prompt students to use reasoning and identify and correct their misconceptions All content has been extensively field tested and 7 new tutorials have been added that respond to reviewer demand numerous interviews and nationally conducted workshops back cover **Astronomy Today, Lecture-Tutorials for Introductory Astronomy, and Masteringastronomy with Etext and Access Card** Eric Chaisson, Steve McMillan, 2013-12-04 Package consists of 0321820460 9780321820464 Lecture Tutorials for Introductory Astronomy 0321901673 9780321901675 Astronomy Today 0321909860 9780321909862 MasteringAstronomy with Pearson eText ValuePack Access Card for Astronomy Today Cosmic Perspective Stars Galaxs and Cosm and Lectr Pk Edward E. Prather, Tim P. Slater, Jeff P. Adams, Gina Brissenden, CAPER, 2009-12-26 **Lecture- Tutorials for Introductory Astronomy** Edward E. Prather, Tim P. Slater, 2015-10-26 0134452836 9780134452838 Lecture Tutorials for Introductory Astronomy StarGazer 5 0 Student Access Card Modified MasteringAstronomy with Pearson eText ValuePack Access Card for The Cosmic Perspective Package consists of 0321765184 9780321765185 SkyGazer 5 0 Student Access Code Card Integrated component 0321820460 9780321820464 Lecture Tutorials for Introductory Astronomy 0321906969 9780321906960 Modified MasteringAstronomy with Pearson eText ValuePack Access Card for The Cosmic Perspective **Lecture- Tutorials for Introductory Astronomy, Skygazer 5.0 Student Access Code Card and Modified Masteringastronomy with Pearson Etext -- Standalone** Edward E. Prather, Tim P. Slater, 2015-10-26 0134462831 9780134462837 Lecture Tutorials for Introductory Astronomy SkyGazer 5 0 Student Access Code Card and Modified MasteringAstronomy with Pearson eText Standalone Access Card for The Essential Cosmic Perspective Package consists of 0321765184 9780321765185 SkyGazer 5 0 Student Access Code Card Integrated component 0321820460 9780321820464 Lecture Tutorials for Introductory Astronomy 0321929357 9780321929358 Modified MasteringAstronomy with Pearson eText Standalone Access Card for The Essential Cosmic *The Essential Cosmic Perspective + Mastering Astronomy With Pearson EText Access Code + Lecture-Tutorials for Introductory Astronomy + Skygazer 5.0 Student Access Code* Jeffrey O. Bennett, Megan O. Donahue, Mark Voit, Nicholas Schneider, 2014-02-06 013388595X 9780133885958 Essential Cosmic

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