



# Introduction to Astronomy and Cosmology

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Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.Bibliography.Chapter 1: Astronomy, an Observational Science.1.1 Introduction.1.2 Galileo Galilei's proof of the Copernican theory of the solar system.1.3 The celestial sphere and stellar magnitudes.1.4 The celestial coordinate system.1.5 Precession.1.6 Time.1.7 A second major observational triumph: the laws of planetary motion.1.8 Measuring the astronomical unit.1.9 Isaac Newton and his Universal law of Gravity.1.10 Experimental measurements of G, the Universal constant of gravitation.1.11 Gravity today: Einstein's special and general theories of relativity.1.12 Conclusion.1.13 Questions.Chapter 2: Our Solar System 1 - The Sun.2.1 The formation of the solar system.2.2 The Sun.2.3 Nuclear fusion.2.4 The solar neutrino problem.2.5 The solar atmosphere: photosphere, chromosphere and corona.2.6 The solar wind.2.7 The sun's magnetic field and the sunspot cycle.2.8 Prominences, flares and the interaction of the solar wind with the earth's atmosphere.2.9 Solar eclipses.2.10 Questions.Chapter 3: Our Solar System 2 - The Planets.3.1 What is a planet?3.2 Planetary orbits.3.3 Planetary properties.3.4 Planetary atmospheres.3.5 The planets of the solar systems.3.6 Comets.3.7 Questions.Chapter 4: Extra-solar Planets.4.1 The radial velocity (Doppler wobble) method of planetary detection.4.2 Planetary transits.4.3 Gravitational microlensing.4.4 Astrometry.4.5 Discovery space.4.6 Selection effects and the likelihood of finding solar systems like ours.4.7...



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