

1: C. W. C. Barlow: Elementary Mathematical Astronomy (PDF) - ebook download - english

Elementary mathematical astronomy, with examples and examination papers Item Preview.

Maria and Eric Muhlmann Award Dr. Pieter van Dokkum The Maria and Eric Muhlmann Award is given for recent significant observational results made possible by innovative advances in astronomical instrumentation, software, or observational infrastructure. The recipient of the Muhlmann Award is Pieter van Dokkum for the development of a novel means to measure very diffuse and faint structures in the sky. There are now 48 lenses in two clusters that can reach a limit of 32 magnitudes per square arc second in a hour exposure over a large field of view. The suggestion is that these are almost entirely made of dark matter. Then by contrast, last year the Dragonfly claimed to have found a dwarf galaxy that is almost entirely devoid of dark matter. This is still somewhat controversial, but undoubtedly the Dragonfly array is making waves. Trumpler Award is given each year to a recent recipient of the PhD degree in North America whose research is considered unusually important to astronomy. Trumpler Award to Dr. Andrew Howard, is the discovery that the size distribution of extrasolar planets has a gap separating two types: The interpretation of this gap is that it represents the separation of rocky planets from low-mass planets with gas atmospheres, and its discovery has already sparked numerous theoretical and observational studies. It demonstrates a natural division among planets, on par with the division between rocky planets, ice giants, and gas giants in our Solar System. Amateur Achievement Award Thiam-Guan Tan The Amateur Achievement Award recognizes significant observational or technological contributions to astronomy by an individual not employed in a professional capacity. The recipient is Thiam-Guan Tan who has demonstrated an extraordinary record of accomplishment for an amateur astronomer, contributing serious professional work at the highest levels of quality. To date he has observed over transit candidates and has helped discover twenty-eight transiting and six microlensing planets, including LHS b, one of the closest known potentially habitable planets and KELTb, a highly inflated planet with the smallest transit depth of any discovered by a ground-based survey. This has been achieved despite relatively poor urban seeing conditions and a collecting area of only 12" of aperture at his home observatory near Perth, Western Australia. In addition to exoplanet research, Tan has also discovered three supernovae, and made significant amateur contributions to microlensing and supernova follow-up observations. He is an inspiration to amateur astronomical researchers all over the world. He is an inspiration for astronomers all over the world, especially in the burgeoning field of exoplanets. The recipient is Prof. David Hurd, of Edinboro University in Pennsylvania. Professor Hurd is recipient of what is the only award in the world that recognizes a lifetime of contributions to the teaching of introductory college astronomy. He is known at the college as an approachable, attentive faculty member and as a model teacher. He was the professor of the year at his university in He encourages students to do their own research in educational techniques or materials, and then brings them to conferences he attends. In addition to his professional efforts, Dr. Hurd shares a personal connection to those with disabilities, as two of his four sons have significant disabilities. His particular specialty is developing educational materials on astronomy for the blind, including tactile books for NASA on such topics as lunar craters, Mars exploration, eclipses, and ocean worlds in the outer solar system. The Dean of Edinboro University wrote about Dr. He is just the kind of Astro professor this award was designed to recognize. Brennan Award is given to an individual demonstrating excellence in the teaching of astronomy at the high school level in North America. Detterline recently counted his ,th visitor to the district planetarium and has also been a part-time astronomy instructor at several local colleges and universities. Several generations of students have been inspired to a greater interest, in and involvement with, astronomy through his passion. He has written observing and observatory manuals, research papers, newspaper columns, and more. Detterline is determined, concerned, inquisitive, happy, funny, tenacious, goal oriented, technologically sophisticated, and passionate about astronomy and teaching. The recipient is Don Ficken, a member of the St. Louis Astronomical Society who has performed remarkable services in expanding the outreach programs of the society. Since , Ficken has developed and managed the SLAS Library Telescope program which now circulates telescopes through libraries in eastern Missouri and western Illinois in addition to another five

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telescopes made available to local pre-college educators. In addition he founded the St. Louis Eclipse Task Force which worked three years to prepare the St. Louis metro area for the historic Total Solar Eclipse. Ficken delivered more than presentations in the St. Louis area and grew the task force to more than representatives from schools, science museums, local and state agencies, businesses, libraries, universities, astronomy clubs, and civic groups in central and eastern Missouri and western Illinois. Ficken also produced the June 19, Saint Louis Solar Eclipse Expo attended by over 4, people which included the procurement and distribution of over , solar eclipse-viewing glasses at no cost to pre-college students and their educators. Ficken subsequently coordinated the collection of over 23, used solar viewing glasses for use by schools in South America located in the path of the solar eclipse. The ASP is dedicated to bringing together professionals, amateurs, educators, and enthusiasts for the purpose of increasing the understanding of astronomy and improving how we teach that knowledge to others. Boasting a diverse portfolio of astronomy education initiatives funded by NASA and the NSF, professional research journals and publications, and annual awards designed to recognize the achievements of professional and amateur astronomers as well as the work done by formal and informal educators, the ASP is unique in its mission to foster science literacy through the wonder and excitement of astronomy. The ASP is headquartered in San Francisco, and is financially supported by donations, grants, corporate sponsorships, subscriptions, member dues, and retail sales.

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A knowledge of elementary Dynamics will, however, be required in reading the last three chapters, but all dynamical investigations have been left till the end of the book, thus separating dynamical from descriptive Astronomy.

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Practical Astronomy for Engineers by Frederick Hanley Seares - Stephens The main purpose of the volume is an exposition of the principal methods of determining latitude, azimuth, and time.

4: Elementary Astronomy

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5: Elementary Mathematical Astronomy

Excerpt from Elementary Mathematical Astronomy, Vol. 2: With Examples and Examination Papers It has not been assumed that the reader's knowledge of mathe maties extends beyond the more rudimentary portions of Geometry, Algebra, and Trigonometry.

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7: Crossley William Crosby Barlow (Author of Elementary Mathematical Astronomy)

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