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• Additional material in Chapter 12 on Saturn’s moon Enceladus. (1991), and Li (1998) \citep{jon90,jam91} (Jones et al., 1990; James et al. 70 How to Read and Open File Type for PC ? The absence of sophisticated mathematics, however, in no way prevents discussion of important concepts. Specify the style and location of the bibliography in your TEX document. Commas should be used only to separate two or more years linked with one author (author group). Each literature citation made in the text should have a corresponding entry in the References at the end of the paper. and (Ho), P.–T.–P. • New coverage in Chapter 14 of the Dawn mission to Ceres. and (Chandler), C.–J. Almost every chapter in the ninth edition has been substantially updated with new information. Several chapters have also seen significant reorganization in order to streamline the overall presentation, strengthen our focus on the process of science, and reflect new understanding and emphases in contemporary astronomy. If there are several references to the same first author, they should be entered according to the following scheme: One author: chronologically Author, one co-author: alphabetically by co-author, then chronologically Author, two or more co-authors: chronologically. 1990a,b) ADS BibTeX records for citing ASCL and ArXiv entries A&A Bibtex style now supports the “eprint” field for referring to eprints. If there are more than two authors, only the first name should be given, followed by “et al.”. 1992, MNRAS, 301, 257 (BEF) Curie, M., & Curie, P. In the TEX file, the references list is enclosed as follows: \documentclass{aa} ... 1990) \citep[see][jon90] (see Jones et al. • New coverage in Chapter 17 on the GAIA astrometric mission. (Oxford Univ. • Numerous replacement images for currency and clarity, and updated art throughout the text. BRIEF CONTENTS PART I: Astronomy and the Universe 21 Charting the Heavens: The Foundations of Astronomy 52 The Copernican Revolution: The Birth of Modern Science 333 Radiation: Information from the Cosmos 594 Spectroscopy: The Inner Workings of Atoms 795 Telescopes: The Tools of Astronomy 99 PART II: Our Planetary System 1326 The Solar System: Comparative Planetology and Formation Models 1347 Earth: Our Home in Space 1608 The Moon and Mercury: Scorched and Battered Worlds 1879 Venus: Earth’s Sister Planet 21410 Mars: A Near Miss for Life? Roosevelt, & J. • Updated discussion in Chapter 15 of habitable zones and planetary systems in star clusters. • Additional material in Discovery 16-1 on the Solar Dynamics Observatory. • Rewritten discussion of gravitational radiation in Discovery 22-1, including extensive coverage of the 2015 LIGO detections. • Expanded coverage in Chapter 10 of the Curiosity rover on Mars and its findings so far. Loinard, L., Zapata, L. • Extensive discussion in Chapter 14 of the Rosetta mission to comet 67 P/Churyumov-Gerasimenko. • Consistent distance scales in all figures, helping students gain an understanding of the vastness of the universe. Astronomy is a science that thrives on new discoveries. Many improvements inspired by these comments have been incorporated into this new edition. Focus of the Ninth Edition From the first edition, we have tried to meet the challenge of writing a book that is both accurate and approachable. comm.” in the main text. • New material in Chapter 15 on direct imaging as an exoplanet detection technique. and (Parise), B. Rather, we rely on qualitative reasoning as well as analogies with objects and phenomena familiar to the student to explain the complexities of the subject without oversimplification. 2) Multiple citations can be made as usual, by including more than one citation key in the \cite command argument. (1990), James et al. • Completely revised presentation of Pluto in Chapter 14 based on data from the New Horizons mission. 1991, A&A, 248, 612 de Gaulle, C. • Additional material in Discovery 19-1 on brown dwarfs, clarifying the distinction between brown dwarfs and planets. We are pleased to have the opportunity to pre-sent in this book a representative sample of the known facts, evolving ideas, and frontier discoveries in astronomy today. Astronomy Today has been written for students who have taken no previous college science courses and who will likely not major in physics or astronomy, and (Rodríguez), L.–F, and (Hartmann), L.–W. Stalin (Wiley, New York), 210 To set the reference list in the proper A&A format, we encourage you to use BibTeX and the natbib package instead of the standard thebibliography environment. Papers in preparation (not yet submitted to a journal) are not to be displayed in the reference list and are to be listed as “in prep.” in the main text, without any date. In addition to updates throughout the text on the numbers and properties of the many astronomical objects, the many substantive changes include: • New discussion in Chapter 5 of next-generation tel-escopes and high-resolution astronomy. The A&A format for references is as follows: Bohr, N., Einstein, A., & Fermi, E. We have tried to communicate the excitement we feel about astronomy and to awaken students to the marvelous universe around us. We are very gratified that the first eight editions of this text have been so well received by many in the astronomy education community. • Improved text and imagery in Chapter 19 on the observational evidence for various stages of star formation: ALMA imagery of protostellar collapse; HST observations of protoplanetary disks. W. Some examples are given below. • New discussion in Chapter 8 of ice on the Moon. D. • Improved simulations of star cluster formation in Chapter 19. • Update in Chapter 13 on the return of Neptune’s Dark Spot. In using those earlier texts, many teachers and students have given us helpful feedback and constructive criticisms, and (Wilner), D.–J. Note that the entry Bibtex format now provided by ADS is also compatible: @ARTICLE{2011ascl.soft07005F, author = {(Freeman), P. • New material in Chapter 11 on the 2016 Juno mission. • Substantially improved discussion and imagery in Chapter 16 of the sunspot cycle. The NASA Astrophysics Data System (ADS) provides automatic tools for retrieving a bib file including entries for a selection of articles. • Additional coverage in Chapter 8 of Mercury’s surface and interior based on Messenger data. How to use BibTeX for A&A For extensive description of the general use of BibTeX, please see for example The LaTeX Companion p.757 (Franck Mittelbach and Michel Goossens, second edition), and (Takahashi), S. If there are two authors for one citation, both names should be given, separated by an ampersand (&). 1991) \citep{jon90,jon91} (Jones et al. It is intended for use in a one- or two-semester, nontechnical astronomy course. In the ninth edition, we have taken particular care to show how astronomers know what they know, and to highlight both the scientific principles underlying their work and the process used in discovery. New and Revised Material Astronomy is a rapidly evolving field and, in the three years since the publication of the eighth edition of Astronomy Today, has seen many new discoveries covering the entire spectrum of astronomical research. Churchill, F. The reference list should contain all the references cited in the text, ordered alphabetically by surname (with initials following). • Updated and rewritten presentation in Chapter 15 of exoplanet searches and properties. Eprint entries may be added to your bibtex databases. Citations should only mention the year given in the reference. N. and (Pech), G. 1987; Ptolemaeus & Copernicus 1988a, 1988b, 1992) Recently Galilei et al. Run BibTeX then run LaTeX. and (Trejo), A.), title = “{ALMA and VLA observations of the outflows in IRAS 16293-2422}”, journal = {ArXiv e-prints}, archivePrefix = “arXiv”, eprint = {1211.4744}, keywords = {Astrophysics - Solar and Stellar Astrophysics, Astrophysics - Galaxy Astrophysics}, year = 2012, month = nov, adsurl = { , adsnote = {Provided by the SAO/NASA Astrophysics Data System} } After running LaTeX and BibTeX on it, an entry is generated in the .bib file, which looks like: \bibitem[{{Freeman et al.}(2011)}]{2011ascl.soft07005F} {Freeman}, P., {Nguyen}, D., {Doe}, S., and {Siemiginowska}, A. Remember you must run LaTeX twice to update the citations. To use BibTeX, you must: Create a database (.bib) file that describes the articles or books you want to reference. If two or more citations are made in one set of parentheses, they should be separated by a semi-colon. 1985; Newton et al. To the student, astronomy sometimes seems like a long list of unfamiliar terms to be memorized and repeated. The command \citet is to be used for parenthetical citations. • New discussion in Chapter 10 of the depletion of the Martian atmosphere. • Updated discussion in Chapter 11 of the internal structure of Ganymede. 1994. Active Galactic Nuclei in The Evolution and Distribution of Galaxies, ed. and (Doe), S. Press, Oxford Heisenberg, W., & West, C. We present a broad view of astronomy, straightforwardly descriptive and without complex mathematics. • New discussion in Chapter 12 of storms on Saturn. 2011 Astrophysics Source Code Library, \vprint[ascl:1107.005] Or \bibitem[{{Loinard} (et–al.)(2012)}]{Loinard}, {Zapata}, {Rodríguez}, {Pech}, {Chandler}, {Brogan}, {Wilner}, {Ho}, {Parise}, {Hartmann}, {Zhu}, {Takahashi}, & {Trejo}}]{Loinard12} {Loinard}, L., {Zapata}, L.–A., {Rodríguez}, L.–F., {et–al.} 2012. ArXiv e-prints [eprint[arXiv]{1211.4744}] The aa class now includes the “eprint” command, which will appear in your final article as a link in both the PDF file and the HTML format. Private communications are not listed either and may be acknowledged as “YYYY, priv. 1990, 1991) \citep{jon90a,jon90b} (Jones et al. The first three author’s names are given, followed by “et al.”, for papers written by a group of more than five authors. If more than one citation for a particular author (author group) is made for the same year, “a”, “b”, “c”, etc. An example of a typical .bib file is also provided in the A&A LaTeX macro package, and (Siemiginowska), A.), title = “{Sherpa: CIAO Modeling and Fitting Package}”, journal = {Astrophysics Source Code Library}, year = 2011, month = jul, archivePrefix = “ascl”, eprint = {1107.005}, adsurl = { , adsnote = {Provided by the SAO/NASA Astrophysics Data System} } An ArXiv example: @ARTICLE{Loinard12, author = {{Loinard}, L. • Reconsideration in Chapter 22 of the existence of black holes, in the light of the new LIGO findings. 1996, Solar Phys. • Expanded discussion in Discovery 20-2 of mass loss from giant stars. • Expanded material in Chapter 23 on the “S stars” in the Galactic center and energetic outflows from the Galactic center into the halo. should be added to the year. If citations are made within the normal running text, only the year(s) should be placed in parentheses. • Presentation in new Discovery 15-4 of gravitational microlensing as an important exoplanet detection technique. For frequently cited papers, an abbreviated form of citation is recommended, e.g., Paper I, Paper II (if appropriate) or by the initial letters of the authors’ surnames. F., et al. • Updated information and imagery in Discovery 5-1 on the ALMA array, and (Nguyen), D. • New coverage in Chapter 23 of the “X” in the Milky Way bulge and its implication for our Galaxy’s history, and (Zhu), Z. 1990, chap. The following examples illustrate the required style: (Copernicus 1986) (Copernicus & Galilei 1988) (Hubble et al. (1990) \citep{jon90} (Jones et al. From these, we have learned to communicate better both the fundamentals and the excitement of astronomy, and (Zapata), L.–A. \usepackage[natbib]{bibpunct}{{()}{}}{a}{}{}{} % to follow the A&A style . % for the bibliography, at the end \bibliographystyle{aa} % style aa.bst \bibliography{Yourfile} % your references \end{document} Citations in the text References are normally cited in the text by placing the name(s) and the year in parentheses, without any comma between them. \citet{jon90}, \citet{jam91}, and \citet{li98} Jones et al. Many new terms and concepts are introduced in this course, but we hope students will also learn and remember how science is done, how the universe works, and how things are connected. Phys., 537, 36 (Paper III) Laurel, S., & Hardy, O. and (Brogan), C.–L. and (Siemiginowska), A.), title = “{Sherpa: CIAO Modeling and Fitting Package}”, journal = {Astrophysics Source Code Library}, year = 2011, month = jul, eprint = {ascl:1107.005}, adsurl = { , adsnote = {Provided by the SAO/NASA Astrophysics Data System} } It is also possible to use the extension “archivePrefix” in BibTeX: @ARTICLE{2011ascl.soft07005F, author = {{Freeman}, P. Fueled by new technologies and novel theoretical insights, the study of the cosmos continues to change our understanding of the universe. A., Rodríguez, L. 23311 Jupiter: Giant of the Solar System 26012 Saturn: Spectacular Rings and Mysterious Moons 28613 Uranus and Neptune: The Outer Worlds of the Solar System 31414 Solar System Debris: Keys to Our Origin 33315 Exoplanets: Planetary Systems Beyond Our Own 363PART III: Stars and Stellar Evolution 38416 The Sun: Our Parent Star 38617 The Stars: Giants, Dwarfs, and the Main Sequence 41718 The Interstellar Medium: Gas and Dust Among the Stars 44519 Star Formation: A Traumatic Birth 46520 Stellar Evolution: The Life and Death of a Star 49021 Stellar Explosions: Novae, Supernovae, and the Formation of the Elements 51622 Neutron Stars and Black Holes: Strange States of Matter 537PART IV: Galaxies and Cosmology 57023 The Milky Way Galaxy: A Spiral in Space 57224 Galaxies: Building Blocks of the Universe 60125 Galaxies and Dark Matter: The Large-Scale Structure of the Cosmos 63226 Cosmology: The Big Bang and the Fate of the Universe 65927 The Early Universe: Toward the Beginning of Time 68128 Life in the Universe: Are We Alone? Before running BibTeX you must ensure that the requested files (i.e. bib, bst and sty files) are in the same directory as your TEX files. \citet{jon90} Jones et al. The Natbib package provides citation commands that automatically format the citations in the proper format. Authors’ initials are permitted only in exceptional cases, for example, to distinguish between two authors with the same surname. • Emphasis in Chapter 22 of the connection between hypernovae and black holes. • Expanded treatment in Discovery 22-1 of relativity and time dilation. 1990) \citep[see][chap.–2]{jon90} (see Jones et al. For papers submitted to a journal that are not yet published, please give the year of submission/acceptation, the name of the journal, and its status: submitted (not yet accepted), or in press. 2012, MNRAS, accepted [arXiv:1211.4744] Remarks Please note that it is mandatory to add the eprint number when the entries are: journal = {Astrophysics Source Code Library} and journal = {ArXiv e-prints}. • Expanded coverage in Chapter 12 of lakes and other features on the surface of Saturn’s moon Titan. 1993, Australian J. The A&A package includes a style file aa.bst that will format your reference list in the proper A&A format. (1991, 1992) showed that ... • Updated discussion of extremophilic life in Chapter 28. • Update in Chapter 11 on the changing appearance of Jupiter’s Great Red Spot. • Expanded discussion in Chapter 15 of exoplanet composition.

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