

References – ARIEL School, Biarritz Sept. 2019 – Solar System course by Pierre Drossart

0 – Introduction - monographies

- Atreya; S.K. Atmospheres and Ionospheres of the Outer Planets and Their Satellites, Springer Ed. 1986.
- Shepard, M.K. Planetary photometry. Cambridge Univ. Press. 2017
- Van de Hulst, H.C. Light Scattering by Small particles. Wiley & Sons Eds. 1957
- Lopez-Puertas, M. and Taylor, F.W. *Non-LTE radiative transfer in the atmosphere* World Scientific. 2001

1- Photometry

- Pearl, J. C.; Conrath, B. J.; Hanel, R. A.; Pirraglia, J. A.; Coustenis, A. The albedo, effective temperature, and energy balance of Uranus, as determined from Voyager IRIS data Icarus, Volume 84, Issue 1, p. 12-28. 1990
- Hanel, R. A.; Conrath, B. J.; Kunde, V. G.; Pearl, J. C.; Pirraglia, J. A. Albedo, internal heat flux, and energy balance of Saturn. Icarus, Volume 53, Issue 2, p. 2 Albedo, internal heat, and energy balance of Jupiter: preliminary results of the voyager infrared investigation
- Hanel, R.; Conrath, B.; Herath, L.; Kunde, V.; Pirraglia, J. Albedo, internal heat, and energy balance of Jupiter: preliminary results of the voyager infrared investigation. Journal of Geophysical Research, Volume 86, Issue A10, p. 8705-8712. 1983
- Drossart, P. Optics on a fractal surface and the photometry of the regoliths Planetary and Space Science, Volume 41, Issue 5, p. 381-393. 1993 A Statistical Model for the Scattering by Irregular Particles
- Shkuratov, Y.G and Hefelstein, P. The opposition effect and the quasi-fractal structure of the regolith. Icarus, 152, 96; 2011
- Hapke, B. Bidirectional Reflectance Spectroscopy 1 to 7. E.g. Icarus, 221, 1079, 2012
- Jian-Yang Li, Paul Helfenstein, Bonnie J. Buratti, Driss Takir, Beth EllenClark. ASTEROID PHOTOMETRY. Asteroid IV Book. Univ. Arizona Press. 2015
- Dyudina, Ulyana; Zhang, Xi; Li, Liming; Kopparla, Pushkar; Ingersoll, Andrew P.; Dones, Luke; Verbiscer, Anne; Yung, Yuk L. Reflected Light Curves, Spherical and Bond Albedos of Jupiter- and Saturn-like Exoplanets. The Astrophysical Journal, Volume 822, Issue 2, article id. 76, 10 pp. (2016). 2016

2- Polarization

- Coulson KL Polarimetry of Mars. Appl Opt. 1969 Jul 1;8(7):1287-94.
- Hansen, J.E and Hovenier, J.W. Interpretation of the polarization of Venus. J. Atmos. Phys. 31, 1137. 1974.
- Drossart, Pierre A Statistical Model for the Scattering by Irregular Particles . Astrophysical Journal Letters v.361, p.L29. 1990
- Shkuratov et al, Icarus, 2005

3- Escape

- Chamberlain, Joseph W. Interplanetary Gas.II. Expansion of a Model Solar Corona. Astrophysical Journal, vol. 131, p.47. 1960
- Parker, Eugene Newman Interplanetary dynamical processes. New York, Interscience Publishers, 1963.

- Strobel, D. Atmospheric Escape. *Planet. Space Sci.* Pluto special issue, 2019 (in press)
- Volkov, Alexey N.; Johnson, Robert E.; Tucker, Orenthal J.; Erwin, Justin T. Thermally Driven Atmospheric Escape: Transition from Hydrodynamic to Jeans Escape. *The Astrophysical Journal Letters*, Volume 729, Issue 2, article id. L24, 5 pp. (2011).2011
- Volkov, A. N., Tucker, O. J., Erwin, J. T., & Johnson, R. E. 2011, *Phys. Fluids*, 2011

4- Non-LTE

- Moreels, G.; Clairemidi, J.; Faivre, M.; Pautet, D.; Rubio da Costa, F.; Rousselot, P.; Meriwether, J. W.; Lehmacher, G. A.; Vidal, E.; Chau, J. L.; Monnet, G. Near-infrared sky background fluctuations at mid- and low latitudes *Experimental Astronomy*, Volume 22, Issue 1-2, pp. 87-107. 2008
- Drossart, P. H₃+ as an ionospheric sounder of Jupiter and giant planets : an observational perspective. *Philosophical Transactions Royal Society A*. 377 (2019)
- Soret, Lauriane; Gérard, Jean-Claude; Piccioni, Giuseppe; Drossart, Pierre The OH Venus nightglow spectrum: Intensity and vibrational composition from VIRTIS—Venus Express observations *Planetary and Space Science*, Volume 73, Issue 1, p. 387-396. 2012
- Coisson, Pierdavide; Makela, Jonathan J.; Occhipinti, Giovanni; Astafyeva, Elvira; alam Kherani, Esfhan; Lognonne, Philippe Coupling between tsunamis and ionosphere: ground-based and space-based observation opportunities. 39th COSPAR Scientific Assembly. Held 14-22 July 2012, in Mysore, India. Abstract PSB.1-14-12, p.353. Jul 2012
- Gilli, G.; López-Valverde, M. A.; Funke, B.; López-Puertas, M.; Drossart, P.; Piccioni, G.; Formisano, V. Non-LTE CO limb emission at 4.7μm in the upper atmosphere of Venus, Mars and Earth: Observations and modeling. *Planetary and Space Science*, Volume 59, Issue 10, p. 1010-1018. 2011
- Waldmann, I. P.; Tinetti, G.; Drossart, P.; Swain, M. R.; Deroo, P.; Griffith, C. A. Ground-based Near-infrared Emission Spectroscopy of HD 189733b. *The Astrophysical Journal*, Volume 744, Issue 1, article id. 35, 11 pp. (2012).
- Barrow, Daniel; Matcheva, Katia I.; Drossart, Pierre Prospects for observing atmospheric gravity waves in Jupiter's thermosphere using H₃+ emission. *Icarus*, Volume 219, Issue 1, p. 77-85. 2012