

REFERENCES

- Abeles, F., 1972, 'Optical Properties of Solids', North Holland Publishing Company, Amsterdam, London., Chapters 8 and 9.
- Abeles, B., and Gittleman, J. I., 1976, Applied Optics, 15, 2328
- Abaev, M. I., Bogomolov, V. N., Bryksin, V. V., Klushin, N.A., 1971 Soviet Physics - Solid State, 13, 1323
- Anderson, R. S., 1967, Phys. Rev., 164, 398
- Billington, D. S., Crawford, J. H. Jr., 1961, 'Radiation Damage in Solids', Princeton, New Jersey, Princeton, University Press
- Bless, R. S., and Savage, B. D., 1970, 'Ultraviolet Stellar Spectra and Ground-Based Observations' ed. L. Houziaux and H. E. Butler (Dordrecht: D. Reidel)
- Bohren, C., and Gilra, D. P., 1977, Private Communication
- Bohren, C., and Wickremasinghe, N. C., 1977, Astrophys. and Space Sc., In press
- Brown, F. C., 1967, 'The Physics of Solids', p.223, Benjamin, New York
- Bruno, Rossi, 1964, 'Cosmic Rays', McGraw-Hill, Inc.
University of Moratuwa, Sri Lanka.
www.lib.mrt.ac.lk
- Bryksin, V. V., Gerbshtain, M. Yu., and Mirlin, D. N., 1971 Soviet Physics - Solid State, 13, 1342
- Chen, Y., and Sibley, W. A., 1969, Phil. Mag., 20, 217
- Clark, C. D., Ditchburn, R. W., Dyer, H. B., 1956, Proc. Roy. Soc., 363, A234
- Comes, R., Lambert, M., and Guinier, A., 1967, Proceedings of the Cairo Solid State Conference - 1966. Available in 'The Interaction of Radiation with Solids', Edited by Adli Bishay, 1967, Plenum Press, New York
- Compton, W. D., 1963, Proceedings of the International Summer School on Solid State Physics. Available in 'The Interaction of Radiation with Solids', Edited by R. Strumane, et al., 1964, North Holland Publishing Company, Amsterdam
- Cooke, A., 1976, Astrophys. and Space Sc., 39, L13-L18
- Cranshaw, T. E., 1963, 'Cosmic Rays', Clarendon Press, Oxford.
- Cross, A. D., and Jones, R. Alan., 1969, Third Edition, 'Practical Infra-red Spectroscopy', Butterworth & Co., (Publishers) Ltd., G.B.

- Day, K. L., 1974, *Astrophys. J.*, 192, L15-L17
- Day, K. L., 1975, *Astrophys. J.*, 199, 660
- Day, K. L., 1976, *Astrophys. J.*, 203, L99-L101
- Day, K. L., and Huffman, D. R., 1973, *Nature Phys. Sci.*, 243, 50
- Day, K. L., Steyer, T. R., and Huffman, D. R., 1974, *Astrophys. J.*, 191, 415
- Dayawansa, I. J., Thomas, B., and Marsden, J. P., 1977, In preparation
- Debye, P., 1909, *Ann. Physik.*, 30, 57
- Delbecq, C. J., and Pringsheim, P., 1953, *J. Chem. Phys.* 21, 794
- Dienes, G. J., and Vineyard, G. H., 1957, 'Radiation effects in Solids', Monographs in Physics & Astronomy - Vol. III, Interscience Publishers, London
- Duley, W. W., 1973, *Nature Phys. Sci.*, 244, 57
- Duley, W. W., 1977, *Astrophys & Space Sci.*, 47, 185
- Englman, R., and Ruppins, R., 1966, *Phys. Rev. Lett.*, 16, 898
- Fitchen, D. B., Silsbee, R. H., Fulton, T. A., and Wolf, E. L., 1963, *Phys. Rev. Letters*, 11, 275
- Forrest, W. J., Houck, J. R., and Reed, R. A., 1976, *Astrophys. J.*, 208, L133-L136
- Forrest, W. J., and Soifer, B. T., 1976, *Astrophys. J.*, 208, L129-L132
- Frolich, H., 1949, 'Theory of Dielectrics', Clarendon Press, Oxford
- Fuchs, R., 1975, *Phys. Rev. B.*, 11, 1732
- Genzel, L., 1974, *Advances in Solid State Physics*, 14, 183
- Genzel, L., and Martin, T. P., 1972, *Phys. Stat. Sol. B.*, 51, 91
- Gehrz, R. D., Hackwell, J. A., and Smith, J. R., 1975, *Astrophys. J.*, 202, L13-L36
- Giaever, I. J., 1973, *Immunol.*, 110, 1424
- Gillett, F. C., and Forrest, W. J., 1973, 179, 483
- Gillett, F. C., Forrest, W. J., Merrill, K. M., Capps, R. W. and Soifer, B. T., 1975, *Astrophys. J.*, 200, 609
- Gilra, D. P., 1972, 'The Scientific Results from the Orbiting Astronomical Observatory OAO-2', Edited by A. D. Code (NASA SP 310), 295
- Grasdalen, G. L., and Joyce, R. R., 1976, *Astrophys. J.*, 208, 317

- Henderson, B., and Wertz, J. E., 1968, Adv. Phys., 17, 749
- Herbig, G. H., 1975, Astrophys. J., 196, 129
- Hoyle, F., and Wickramasinghe, N. C., 1962, Mon. Not. Roy. Astron. Soc., 124, 417
- Hoyle, F., and Wickramasinghe, N. C., 1977, Nature, 266, 241
- Huffman, D. R., 1977, Advances in Physics, Preprint.
'Interstellar Grains - The Interaction of light
with a small-particle system'
- Jasperse, J. R., Kahan, A., Plendl, J. N., and Mitra, S. S., 1966
Phys. Rev., 146, 526
- Johannson, G., Lanzl, F., Osten, W. Vander., Waidelich, W., 1965
Phys. Letters, 15, No. 2, 110
- Kerker, M., 1969, 'The Scattering of light and other Electromagnetic
Radiation', Academic Press, New York
- Kleinmann, D. E., Gillett, F. C., and Wright, E. L., 1976,
Astrophys. J., 208, 42
- Koidal, P., 1977, Phys. Rev. B., 15, 2493
- Lanzl, F., and Osten, W. Van der., 1965, Phys. Letters, 15, No. 3, 208
- Lord Rayleigh., 1871, Phil. Mag. XLI, pp 107-120, 274-279, 447-454,
Scientific Papers Lord Rayleigh, Vol. I
- 1881, Phil. Mag. XII, pp 81 - 101 Scientific Papers
Lord Rayleigh Vol. I, Cambridge University Press, 1899
- 1899, Phil. Mag. CLVII, pp 375-384, Scientific Papers
Lord Rayleigh vol. IV, Cambridge University Press, 1903
- Ludlow, I. K., 1968, J. Phys. Chem., 1, 1194
- Martin, P. G., 1974, Astrophys. J., 187, 461
- Martin, P. G., and Angle, J. R. P., 1975, Astrophys. J., 195, 379
- Maxwell Garnet J. C., 1904, Philosophical Transactions of the Royal
Society, A203
- 1906, Philosophical Transactions of the Royal Society,
A205
- Merril, K. M., Soifer, B. T., and Russell, R. W., 1975, Astrophys.
J., 200, L37-L39
- Mie, G., 1908, Ann. Physik., 25, pp 377-445
- Mitchell, E. W. J., and Page, E. G. S., 1955, Phil. Mag. 46, 1353
- Mitchell, E. W. J., and Page, E. G. S., 1956, Ibid, 1, 1035

- Mitchell, E. W. J., and Rigden, J. D., 1957, Phil. Mag. 2, pt. 2, 941
- Nandy, K., 1966, Publs. R. Obs. Edinb., 5, 233
- Penman, J. M., 1976, Mon. Not. R. Astr. Soc., 175, 149
1976, Mon. Not. R. Astr. Soc., 176, 539
- Perry, C. H., Agrawal, D. K., Anastasakis, E., Lowndes, R. P.,
Rastogi, A., and Tornberg, N. E., 1972, The Moon, 4, 315
- Persson, S. Eric., Frogel, Jay A., Aaronson, Marc., 1976, Astrophys. J.,
208, 753
- Pollack, J. B., Toon, O. B., and Khare, B. N., 1973, Icarus, 19, 372
- Pierce, C. B., 1964, Phys. Rev., 135, A83
- Rao, C. N. R., 1967, 'Ultraviolet and Visible Spectroscopy', Second
Edition, Butterworths, London.
- Ruppin, R., 1968, J. Phys. Chem. Solids, 30, 2349
- Ruppin, R., 1970, Solid State Communications, 8, 1129
- Ruppin, R., 1973, Surface Science, 34, 20
- Ruppin, R., 1976, Nature, 259, 606
- Ruppin, R., and Englman, R., 1970, Reg. Prog. Phys., 33, 149
- Sabri Ergun, 1963, 'Optical Studies of Carbon'
- Sakata, A., Nakagawa, N., Iguchi, T., Isobe, S., Morimoto, M.,
Hoyle, F., and Wickramasinghe, N. C., 1977, Nature
266, 241
- Schulman, J. H., and Compton, W.D., 1962, 'Colour Centres in Solids',
International series of Monographs of Solid State
Physics, Pergamon Press, Inc.
- Sennett, R. S., and Scott, G. D., 1950, J. Opt. Soc. Am., 40, 203
- Silverstein, R. M., Bessler, C. G., and Morrill, T. C., 1974, Third
Edition, 'Spectrometric Identification of Organic
Compounds', John Wiley & Sons, Inc.
- Soifer, B. T., and Pipher, J. L., 1975, Astrophys. J., 199, 663
- Spitzer, W.G., and Kleinman, D. A., 1961, Phys. Rev., 121, 1324
- Stern, F., 1963, Sol. State Phys., 15, 299
- Steyer, T. R., 1974, - Ph.D. thesis, University of Arizona, U.S.A.
- Steyer, T. R., Day, L., and Huffman, D. R., 1974, Applied Optics, 13,
1586
- Stratton, J. A., 1941, 'Electromagnetic Theory', McGraw-Hill, New York

- Tadakora, H., Kobayashi, M., Kawaguchi, Y., Kaboyashi, A., and Murahashi, S., 1963, J. Chem. Phys., 38, 703
- Taft, E. A., and Phillip, H. R., 1965, Phys. Rev., 138, A197
- Thomas, B., 1974, Private Communication
- Treu, J. I., 1976, Applied Optics, 15, 2746
- Trumpler, R. J., 1930, Publs. Astr. Soc. Pacif., 42, 214
- Van de Hulst, H. C., 1949, Rech. Astr. Obs. Utrecht, 11, Pt. 2
- Van de Hulst, H. C., 1957, 'Light Scattering by Small Particles', Wiley, New York
- Weakliem, H. A., 1962, J. Chem. Phys., 36, 2117
- Wertz, J. E., Saville, G., Auzins, P., Orton, J. W., 1963, J. Phys. Soc. Japan, Suppl. 2, 18, 305
- Whittet, D. C. B., Dayawansa, I. J., Dickinson, P. M., Marsden, J. P., and Thomas, B., 1976, 175, 197 MON. NOT. R. ASTRO. SOC.
- Wickramasinghe, N. C., 1967, 'Interstellar Grains', pp 6 - 8, Chapman & Hall, London
- Wickramasinghe, N. C., 1974, Nature, 252, 462
- Wickramasinghe, N. C., 1975, Mon. Not. Roy. Astron. Soc., 170, 11P
- Wickramasinghe, N. C., and Nandy, K., 1972, Rep. Prog. Phys., 35, 157
- Wickramasinghe, N. C., Hoyle, F., and Nandy, K., 1977, Astrophys. & Space Sci., 47, L9-L13
- Willner, S. P., 1976, Astrophys. J., 206, 728
- Witt, A. N., and Lillie, C. F., 1973, Astro. Astrophys., 25, 397
1976, Astrophys. J., 208, 64
- Woods, A. D. B., Brockhouse, B. N., Cowley, R. A., 1963, Phys. Rev., 131, 1025
- Zelik, M., 1976, 'Astronomy - The Evolving Universe', Harper & Row Publishers, New York

