

REFERENCES

- [1] R. Yang, K. M. Dalsin, D. F. Evans, *J. Phys. Chem.*, **93**, (1989), 511-512.
- [2] John D. Stenger-Smith, *Prog. Polym. Sci.*, **Vol. 23**, (1998), 57-79.
- [3] J. Rodriguez, T. F. Otero, H. Grande, J. P. Moliton, A. Moliton, T. Trigaud, *Synthetic Metals*, **76**, (1996), 301-303.
- [4] A. F. Diaz, K. K Kanazawa, G. P. Gardini, *J. Chem. Soc. Chem. Commun.*, (1979), 635.
- [5] G. Tourillon, F. Garnier, *J. Electroanal. Chem.*, **135**, (1982), 173.
- [6] T. F. Otero, J. Rodriguez, *Electrochim Acta*, **39**, (1994), 245.
- [7] T. F. Otero, J. Rodriguez, *J. Electroanal. Chem.*, **310**, (1991), 219.
- [8] K. Imanishi, Y. Yasuda, R. Tsushima, S. Aoki, *J. Electroanal. Chem.*, **260**, (1989), 469.
- [9] K. M. Gheung, D. Bloor, G. C. Stevens, *Polymer*, **29**, (1988), 1709.
- [10] T. F. Otero, C. Santamaria, E. Angulo, J. Rodriguez, *Synth. Met.*, **55-57**, (1993), 1574.
- [11] T. F. Otero, J. Rodriguez, *Polymer*, **31**, (1990), 220.
- [12] L. L. Miller, B. Zinger, Q. X. Zhou, *J. Am. Chem. Soc.*, **109**, (1987), 2267.
- [13] A. A. Pud, G. S. Shapoval, *Macromolecular Reports*, **A32** (SUPPLS.5&6), (1995), 629-639.
- [14] Ramadhar Singh, Amarjeet K. Narula, R. P. Tandon, *J. Appl. Phys.*, **79(3)**, (1996), 1476-1480.
- [15] W. P. Su, J. R. Schrieffer, A. J. Heeger, *Phys. Rev. B*, **22**, (1981), 2099.
- [16] S. Kivelson, *Phys. Rev. Lett.*, **46**, 1344, (1981); *Phys. Rev. B*, **25**, (1982), 3798.

- [17] D. Bloor, *IEE Proc.*, **130**, (1983), 255.
- [18] S. Sun, L. Chen, E. X. Yu, *Solid State Commun.*, **53**, (1985), 973.
- [19] E. Bukhs, I. M. Hodge, *J. Chem. Phys.*, **83**, (1985), 5976.
- [20] H. S. Nalwa, *Phys. Rev. B*, **39**, (1989), 5964.
- [21] E. Zuo, M. Angelopoulos, A.G. MacDiarmid, A. J. Epstein, *Phys. Rev. B*, **39**, (1989), 3570.
- [22] M. Reghu, S. V. Subramanyam, S. Chatterjee, *Phys. Rev. B*, **43**, (1991), 4236.
- [23] R. Singh, R. P. Tandon, V. S. Panwar, S. Chandra, *J. Appl. Phys.*, **69**, (1991), 2504.
- [24] R. Singh, R. P. Tandon, S. Chandra, *J. Appl. Phys.*, **70**, (1991), 243.
- [25] A. K. Meikap, A. Das, S. Chatterjee, M. Digar, S. N. Bhattacharya, *Phys. Rev. B*, **47**, (1993), 134.
- [26] L. Zuppiroli, M. N. Bussac, S. Paschen, O. Chauvet, L. Forro, *Phys. Rev. B*, **50**, (1994), 5196.
- [27] A. J. Epstein, H. W. Gibson, P. M. Chaikin, W. G. Clark, G. Gruner, *Phys. Rev. Lett.*, **45**, (1980), 1730; *Chem. Scr.*, **17**, (1981), 135.
- [28] Maria Hepel, *Electrochimica Acta*, **Vol. 41**, No.1, (1996), 63-76.
- [29] Terje A. Skotheim, *Electroresponsive Molecular and Polymeric Systems*, **Volume 1**, (1988).
- [30] K. Kaneto, M. Maxifield, D. P. Nairns, A. G. Macdiarmid, A. J. Heeger, *J. Chem. Soc. Faraday Trans. 1*, **78**, (1982), 3417-3429.
- [31] H. Yoneyama, K. Wakamoto, H. J. Tamura, *J. Electrochem. Soc.*, **132**, (1985), 241K.

- [32] D. L. Miller, J. O'M. Bockris, *J. Electrochem. Soc.*, **139**, (1992), 967-976.
- [33] F. Beck, *Electrochim. Acta*, **33**, No. 7, (1988), 839-850.
- [34] J. Y. Ouyang, Yong Fang Li, *J. Appl. Poly. Sci.*, **Vol. 59**, (1996), 1827-1832.
- [35] J. Rodriguez, H-J. Grande, T. F. Otero, *Handbook of Organic Conductive Molecules and Polymers: Vol. 2*, (1997), 415-468.
- [36] A. F. Diaz, Juan I. Castillo, J. A. Logan, Wen-Yaung Lee, *J. Electroanal. Chem.*, **129**, (1981), 115-132.
- [37] B. R. Scharifker, E. Garcia-Pastoriza, W. Marino, *J. Electroanal. Chem.*, **300**, (1991), 85-98.
- [38] E. M. Genies, G. Bidan, A. F. Diaz, *J. Electroanal. Chem.*, **149**, (1983), 101-113.
- [39] Jong-Ru Rau, Show-Chuen Chen, Pao-Hua Liu, *J. Electroanal. Chem.*, **307**, (1991), 269-274.
- [40] Becerik. I., Kadirgan. F, *Electrochimica Acta*, **42**, No.2, (1997), 283-289.
- [41] F. M. Smits, *Measurement of Sheet Resistivities with the Four-Point Probe, The Bell Syst. Tech. J.*, **37**, (1958), 711-718.
- [42] Martin G. Buehler, W. Robert Thurber, *IEEE Trans. On Elec. Dev.*, **23**, No. 8, August (1976), 968-974.
- [43] L. B. Valdes, Member, Ire, *Resistivity Measurements on Germanium for Transistors, Proce. Of The I.R.E.*, February (1954), 420-427.
- [44] T. Shimidzu, A. Ohtani, T. Iyoda, K. Honda, *J. Electroanal. Chem.*, **Vol. 224**, (1987), 123-135.
- [45] Jianyong Ouyang, Yongfang Li, *Polymer*, **Vol. 38**, No. 8, (1997), 1971-1976.
- [46] J. Y. Lee, D. Y. Kim, C. Y. Kim, *Synthetic Metals*, **74**, (1995), 103-106.

- [47] S. Chao, M. S. Wrighton, *J. Am. Chem. Soc.*, **109**, (1987), 2197-2199.
- [48] L. W. Shacklette, R. R. Chance, D. M. Ivory, G. G. Miller, R. H. Baughman, *Synth. Met.*, **1**, (1979), 101.
- [49] Y. Kudoh, S. Tsuchiya, T. Kojima, M. Fukuyama, S. Yoshimura, *Synth. Met.*, **41-43**, (1991), 1133.
- [50] L. H. M. Krings, E. E. Havinga, J. J. T. M. Donkers, *Synth. Met.*, **54**, (1993), 453.
- [51] H. Kuhn, R. Gregory, W. Kimbrell, *Int. SAMPE Electron. Conf.*, **3**, (1989), 570.
- [52] M. D. Imisides, R. John, P. J. Reiley, G. G. Wallace, *Electroanalysis*, **3**, (1991), 879.
- [53] G. P. Gardini, *Adv. Heterocycl. Chem.*, **15**, (1973), 67.
- [54] Theodore Poehler, Peter Searson, *Interface*, **Vol. 5**, No.1, (1996), 32-37.
- [55] Mikhail D. L., Christian L., Eric V., Mikhail A. V., *Electro. Acta*, **Vol. 42**, No.5, (1997), 757-769.
- [56] Maria Hepel, Laura Dentrone, *Electroanalysts*, **8**, No. 11, (1996), 996-1005.
- [57] Maria H., Zhang X., Richard S., Susan P., *Microchemical J.*, **56**, (1997), 79-92.
- [58] Maria H., Yi-Ming C., Richard S., *J. Electrochem. Soc.*, **Vol. 143**, No. 2, (1996), 498-505.
- [59] M. A. Alatorre, S. Gutierrez, U. Paramo, *J. Appl. Electrochem.*, **Vol. 28**, (1998), 551-557.
- [60] R. Capaccio in *Electroless Plating: Fundamentals and Applications* (Eds: G.O. Mallory, J. B. Hajdu), AESF Society, Orlando, FL 1991, pp. 519-528.

- [61] Vaughan, D. J. U. S. Patent 4, 325, 792, April 20, (1982).
- [62] Saieva, C. J. U. S. Patent 4, 652352. March 24, (1987).
- [63] Williams, P. A.; Hudson, M. J. (Eds) *Recent Developments in Ion Exchange*, Elsevier, Barking, **Vol. 2**, (1990).
- [64] W. J. Carter, G. K. Scheitzer, T. A. Carlson, *J. Elec. Spec. and Rel. Phen.*, **5**, (1974), 827-835.
- [65] David M. H., Shirley H. H., *J. Chem. Educ.*, **Vol. 61**, Num. 6, (1984), 483-489.
- [66] David M. H., Shirley H. H., *J. Chem. Educ.*, **Vol. 61**, Num. 5, (1984), 402-409.
- [67] Andrew Swift, *Chem. In Britain*, November (1995), 887-890.
- [68] William P. D., Joseph E. L., *Anal. Chem.*, **Vol. 45**, No. 8, July (1973), 1416.
- [69] David M. H., James C. C., *Anal. Chem.*, **Vol. 46**, No. 5, April (1973), 133R.
- [70] Information obtained from Internet : IBM Home Page of X-ray Photoelectron Spectroscopy.
- [71] Information obtained from Internet : SARC Home Page of TOF-SIMS.
- [72] W. J. Feast, H. S. Munro, R. W. Richards, *Polymer Surfaces and Interfaces II*, (1993), 205-223.
- [73] Hailin Ge, Guojun Qi, E. T. Kang, K. G. Neoh, *Polymer*, **Vol. 35**, 3, (1994), 504-508.
- [74] K. L. Tan, B. T. G. Tan, E. T. Kang, K. G. Neoh, *J. Chem. Phys.*, **94(8)**, (1991), 5382-5388.
- [75] E. T. Kang, K. G. Neoh, Y. K. Ong, K. L. Tan, B. T. G. Tan, *Polymer*, **Vol. 32**, 8, (1991), 1354-1360.
- [76] E. T. Kang, K. G. Neoh, Y. K. Ong, K. L. Tan, B. T. G. Tan,

- Macromolecules*, (1991), **24**, 2822-2828.
- [77] T. F. Otero, R. Tejada, A. S. Elola, *Polymer*, **Vol. 28**, (1987), 651-658.
- [78] K. M. Cheung, D. Bloor, G. C. Stevens, *Polymer*, **Vol. 29**, (1988), 1709-1717.
- [79] I. Taniguchi, K. Matsushita, M. Okamoto, *J. Electroanal. Chem.*, **280**, (1990), 221-226.
- [80] T. Jabs, P. Borthen, H.-H. Strehblow, *J. Electrochem. Soc.*, **Vol. 144**, No. 4, (1997), 1231-1243.
- [81] H. K. Youssoufi, M. Hmyene, A. Yassar, F. Garnier, *J. Electro. Chem.*, **406**, (1996), 187-194.
- [82] F. Albert Cotton, G. Wilkinson, *Adv. Inorg. Chem., A Comprehensive Text*, Third Edition, (1962), 874-916.
- [83] Thomas D., Andrew F. P., Peter M. A. Sherwood, *J. Chem. Soc., Faraday Trans 1*, **Vol. 73**, (1977), 327.
- [84] Georg Brauer, *Handbook of Preparative Inorganic Chemistry*, **Vol. 2**, Second Edition, (1965), 1012-1548.
- [85] C. W. Wood, A. K. Holliday, *Inorganic Chemistry, An Intermediate Text*, (1967), 357-358.
- [86] Jacob Kleinberg, William J. Argersinger, Ernest Griswold, *Inorganic Chemistry*, (1960), 553-559.
- [87] Christian P., Mohamed M. C., Michel D., Stuart F. L., Steven P. A., *Langmuir*, **12**, (1996), 3245-3251.
- [88] Josep M. R., Amadou D., Josep M. T., D. Bloor, *Polymer*, **Vol. 32**, 4, (1991), 728-732.
- [89] Pluger P., Krounbi M., Street G. B., Weiser G., *J. Chem. Phys.*, **78**, (1983),

3212.

- [90] O. Inganas, R. Erlandsson, C. Nylander, I. Lundstrom, *J. Phys. Chem. Solids*, **Vol. 45**, No.4, (1984), 427-432.
- [91] E. T. Kang, K. G. Neoh, K. L. Tan, *Advan. In Poly. Sci.*, **Vol. 106**, (1993), 135-190.
- [92] D. C. Frost, A. Ishitani, C. A. McDowell, *Mol. Phys.*, **Vol. 24**, No.4, (1972), 861-877.
- [93] S. Badrinarayanan, P. Ganguly, A. B. Mandale, S. R. Sainkar, *J. Elec. Spec. & Rel. Phen.*, **Vol. 59**, (1992), 307-313.
- [94] C. D. Wagner, D. A. Zatko, R. H. Raymond, *Anal. Chem.*, **52**, (1980), 1445-1451.
- [95] K. S. Kim, *J. Elec. Spec. & Rel. Phen.*, **Vol. 3**, (1974), 217-226.
- [96] J. W. Rogers, Jr., N. D. Shinn, J. E. Schirber, E. L. Venturini, *Phys. Rev. B*, **Vol. 38**, (1988), Num. 7, 5021-5024.
- [97] D. T. Clark, H. R. Thomas, *J. Poly. Sci.: Poly. Chem. Edn.*, **Vol. 16**, (1978), 791-820.
- [98] Gunner S., Sten T. Lundin, *J. Elec. Spec. & Rel. Phen.*, **Vol. 1**, (1972/1973), 105-109.
- [99] K. S. Kim, R. E. Davis, *J. Elec. Spec. & Rel. Phen.*, **Vol. 1**, (1972/1973), 251-258.
- [100] K. W. Wulser, M. A. Langell, *J. Elec. Spec. & Rel. Phen.*, **Vol. 59**, (1992), 223-241.
- [101] Luis J. M., Lo I. Y., Samuel O. G., William E. S., *Inorganic Chem.*, **Vol. 12**, (1973), No. 12, 2762-2769.

- [102] P. Murray, G. M. Spinks, G. G. Wallace, R. P. Burford, *Synth. Met.*, **97**, (1998), 117-121.
- [103] M. Iseki, K. Saito, M. Ikematsu, Y. Sugiyama, K. Kuhara, A. Mizukami, *J. Electroanal. Chem.*, **358**, (1993), 221.