

REFERENCES

REFERENCES

- 1- I.L. Finnar; "Organic Chemistry", 6th longman's Ed., London, Vol. 1, 1973, 880.
- 2- C.Willis and R.A. Back; Nature, 241, 243 (1973).
- 3- S.Pattai, "The chemistry of the hydrazo, azo and azoxy, groups", John willey and Sons, London, 1975, 1, 41 & 129.
- 4- H.Suzyhi, "Electron absorption spectra and geometry of organic molecule", Academic press, New York, 1967, 499.
- 5- H. Khalifa, B.N. Barsoom and E.A. El-Gazzar; Egypt J. Chem., 23, 179 (1980).
- 6- E.E. Kostyuchinko, V.F. Traven, R.A. Mkhitarov and B.I. Stepanov; Zh. Org. Khim., 16, 1702 (1980).
- 7- R.Haessner, H. Mustroph and B.Borsdrof; J. Prakt Chem. 327, 555 (1985).
- 8- M.Gaber, H.A. Dessouki and Y.M. Issa; Kolor. Ertesito, 1, 11 (1986).
- 9- H.A. Mohamed; Proc. Pakistan Acad. Sci. 29, 275 (1992).
- 10- A.El-Ansary, M.S. Rizk and A.A. Ali; Kolor. Ertesito, 27, 3 (1985).
- 11- M.Kamel, R.M. Issa and E.I. Abdel-Hai; Colourstical Review (Kolorisaztikai/Esterito), 20, (1975).
- 12- S.H. Etaiw and M.Elmorsi; Indian J. Text. Res., 7, 19 (1982).
- 13- V.F. Traven, A.M. Tsygankova and B.I. Stepanov; Zh. Org. Khim, 21, 1539 (1985).
- 14- R.M. Issa and A.A. Harfoush; Pak. J. Sci, Res., 30, 58 (1978).
- 15- H.A. Dessouki, M. Gaber and A.L. El-Ansary; Egypt J. Chem., 32, 639 (1989).
- 16- R.M. Issa, S.S. Assar and H.M. Dessouki, Egypt. J. Chem., 35, 321 (1992).

- 17- Y.M. Issa, W.F. El-Hawary, M.E. Moustafa and M.Refaat; J. Indian Chem. Soc. 74, 777, (1997).
- 18- M.E.Moustafa, Y.M. Issa, W.F. El-Hawary and M.Refaat; Spectroscopy letters, 32 (5), 829 (1999).
- 19- M.M. Mostafa; J. Delta Chem., 16, 93 (1992).
- 20- H.E. Mabrouk, M. Gaber, A.Z. El-Sombati and G.B. El-Hefnawey; Transition Met. Chem., 17, 1 (1992).
- 21- G.B. El-Hefnawy, M.A. El-Borai, E.A. Aly and A.A. Gaber; Indian J. Chem., 17, 160 (1992).
- 22- Y.M. Issa, M.S. Risk, H.A. Mohamed and A.Tawansi, Recibido, 23, 11 (1993).
- 23- M.E. Moustafa, E.H. El-Mossalamy and G.O. El-Sayed; Spectroscopy Letters, 27, 981 (1994).
- 24- M.H. Moustafa, E.H. El-Mossalamy and A.S. Amin; Manatshefte fur Chemie, 126, 901 (1995).
- 25- N.T. Abdel-Ghani, M.S. Risk, Y.M. Issa and Z.Z. Sharara; Egypt J. Chem., 36, 1 (1993).
- 26- M.Gaber, M. Hassanein and H.A. Ahmed; Indian J. Tex. Res., 11, 48 (1986).
- 27- M.Gaber, H.E. Mabrouk and M.Mounir; Thermochemica Acta, 186, 89 (1991).
- 28- M.S. Masoud, M.M. Osman, T.M. Salem and E.A. Khalil, Indian J. Chem., 6, 584 (1981).
- 29- H.A. Dessouki, R.M. Issa and M.M. Moustafa; Egypt J. Chem., 27, 5 (1984).
- 30- M. Abd El-Mottaleb, S.M. Abou El-Wafa and Y.Z. Ahmed; Egypt J. Chem., 28, 367 (1985).
- 31- A.M. Aref; Bull. Fac. Sci., Assiut Univ., Egypt, 18, 53 (1989).

- 32- M.S. Masoud, M.M. Osman, T.M. Salem and E.A. Khalil; *Indian J. Chem.*, 6, 584 (1981).
- 33- M.Gaber, M.Hassanein and H.A. Ahmed; *J. Tex. Res.*, 11, 48 (1986).
- 34- M.S. Masoud, E.El-Shereafy, E.A. Khalil and O.H. Abd El-Hamid; *Egypt J. Chem.*, 2, 95 (1993)
- 35- B.B. Mahapatra and K.K. Sukhendu; *J. Indian Chem. Soc.*, 68, 542 (1991).
- 36- M.M. Omar, M. El-Seify and A.A. Fathy; (36) *Egypt. J. Chem.* 122, 455 (1991).
- 37- M.M. Abdel-Badei, H.A. Dessouky, A.S. Shalabi and A.S. Amin; *Egypt J. Chem.*, 2 (1), 41 (1993).
- 38- A.F. Shoair, A.A. El-Bindary, A.Z. El-Sonbati and R.M. Younes; *Polish J. Chem.*, 74, 1047 (2000).
- 39- I.M.A. Awad, A.A. Aly, A.A. Abdel-Hafez and K.H.M. Hassan; *J. Chin. Chem. Soc.*, 36, 107 (1989).
- 40- T.M. El-Gougry, A.A. El-Bindary, A.Z. El-Sonbati, A.El-Dissouky and A.S. Hilali; *Polish J. Chem.*, in press (2000).
- 41- I.M.A. Awad; *Phosphorous, Sulfur and Silicon, Chem.*, in press (2001).
- 42- M.M. Ghoneim, Y.M. Issa, E.M. Mabrouk and T. Amerah; *J. Electrochemical Soc. India*, 35, 267 (1986).
- 43- L.I. D.C. Yaguez, J.M.P. Carrazon and L.M.P. Diez; *Electrochim. Acta*, 31, 119 (1987).
- 44- W.U. Malik, R.N. Goyal and C. Mathur; *J. Electroanal. Chem.*, 235, 225 (1987).
- 45- E.M. Mabrouk, Y. M. Issa, M.M. Ghoneim and T. Amerah; *Bull. Electrochem*, 3, 321 (1987).

-
- 46- E.M. Mabrouk, M.M. Ghoneim, Y.M. Issa and A.M. Hassanein; Egypt J. Chem., 36, 255 (1993).
- 47- E.M. Mabrouk, H.M. Killa, A.A. Abd El-Fattah and S.A. Yasen; Collect. Czech. Chem. Commun., 57, 268 (1992).
- 48- E.H. El-Mosalamy and E.M. Mabrouk; Bull. Electrochem., 11, 202 (1995).
- 49- H.M. Killa, E.M. Mabrouk, A.A. Abd El-Fattah and S.A. Yasen; Analytical Letters, 24, 275 (1991).
- 50- R. Jain and U. Jain; Bull. Electrochem., 10, 279 (1994).
- 51- P. Pandey and A. Dav; Bull. Electrochem., 10, 341 (1994).
- 52- S. Husain, V. Nagaraju and P. Raviprasad; Bull. Electrochem., 11, 202 (1995).
- 53- R. Jain and P. Pandey; J. Electrochem. Soc., 37, 4 (1988).
- 54- R. Jain and D. Dua; Bull. Electrochem., 7, 224 (1991).
- 55- A. Ramesh and J. Krishnamacharyulu; J. Indian chem. Soc. 68, 545 (1991).
- 56- Y.M. Temerk, I.M. Issa, M.M. Ghoneim and Z.A. Ahmed; J. Electrochem. Soc., India, 37 (3), 155 (1978).
- 57- I.M. Issa, Y.M. Temerk, R.M. Issa and M.M. Ghoneim; Z. Phys. Chemie (Leipzig), 2, 257 (1976).
- 58- Y.I. Maharran, A.M. Hassanein and M.M. Ghoneim; Bull. Electrochem., 14 (4-5), 180 (1998).
- 59- A. Eriksson and L. Nyholm; Electrochimica Acta, 44, 4029 (1999).
- 60- P. Sharma, A. Dave, N.N. Mishra, S.R. Narad and N. Kapoor; Indian J. Chem., 36A, 449 (1997).
- 61- A.M.M. Ali; Analytical letters, 26 (8), 1635 (1993).
- 62- R. Jain, P. Pandmaja and S. Gupta; Can. J. Chem., 75, 567 (1997).
- 63- R.N. Gupta and A. Rania; J. Indian Chem. Soc., 62, 363 (1985).
-

- 64- S.Husain, V.Nagraja and P. Raviprasad; Bull. Electrochem., 11, 202 (1995).
- 65- Y.M. Moharram; Bull. Electrochem., 13 (4), 176 (1997).
- 66- R.Jain and U.Jain; Bull. Electrochem.; 11(7), 326 (1995).
- 67- A.M.A. Helmy; J. Electroanal. Chem., 420, 259 (1997).
- 68- I.S. El-Hallag, A.M. Hassanein, M.Gaber and R.M. Issa; Bull. Electrochem., 10(6), 291 (1994).
- 69- H.T.S. Britton; "Hydrogen Ions " 4th Edn., Chapman and Hall, London P. 364 (1952).
- 70- B-Erk and N-Gunduz, Inorg. Chem. Acta., 167, 91, (1991).
- 71- L. Meites, "Polarographic Techniques" Interscience Publishers, Inc., N.Y. 4th Ed., 1955, P.240.
- 72- C.Briegleb and H.Della; Angew. Chem., 72, 401, (1958).
- 73- E.M. Kosower; J. Am. Chem. Soc. 78, 5700 (1956).
- 74- E.M. Kosower; J. Am. Physique, 61, 230 (1964).
- 75- C.Reichardt and K. Dimroth; Fortschr. Chem. Forsch., 11 (1) (1963), (C.A : 23167y).
- 76- K.Dimroth, C.Reichardt, T. Siepmann and F. Bohlmann; Ann. Chem., 669, 95 (1963).
- 77- M.J. Kamlet and R.W. Taft; J. Am. Chem. Soc., 98, 377 (1976).
- 78- M.J. Kamlet, J. L. Aboud and R.W. Taft; J. Am. Chem. Soc., 99, 6027, 8325 (1977).
- 79- L. Gati and L. Szalay; Acta, Phys. Chem., 5, 87 (1959).
- 80- P.Suppan; J. Chem. Soc. (A), 3125 (1968).
- 81- N.S. Bayliss and E.G. McRae; J. Phys. Chem., 58, 1002 (1954).
- 82- E.G. McRae; J. Phys. Chem., 61, 562 (1957).
- 83- H. Looker; J. Org. Chem., 27, 361 (1962).
- 84- Katritziky; J. Chem. Soc., 3674 (1995a).

- 85- W.W. Coblenz; "Investigation of Infrared Spectra", Carnegie Institute, Washington, Part 1 (1950).
- 86- G.M. Bonino; Trans. Faraday Soc., 25, 876 (1929).
- 87- M. Goldstun, E.F. Mooney, A.Anderson and H.A. Gebbie; Spectrochim. Acta, 21, 105 (1965).
- 88- H.H. Freedman; J. Am. Chem. Soc., 83, 2400 (1961).
- 89- E. Konig; Inorg. Chem., 10, 2632 (1971).
- 90- A.B.P. Lever and B.S. Ramaswamy; Can. J. Chem., 51, 514 (1973).
- 91-B.N. Figgis, "Introduction to Ligand Field Theory" Interscience Publishers, Inc., New York, (1966).
- 92-P.W. Selwood, "Magneto Chemistry", Interscience Publisher, Inc., New York (1956).
- 93- B.N. Figgis and J. Lewis, Prog. Inorg. Chem., 6, 37 (1964).
- 94- Eu. Conden and G.H. Shortley, "The Theory of Atomic Spectra", Cambridge, (1963).
- 95-A.B.P. lever, "Inorganic Electronic Spectroscopy" Elsevier, Amsterdam, (1968).
- 96-J.E. Huheey,, "Inorganic Chemistry Principles of Structure and Reactivity", Third Edition London (1983).
- 97-F.Cotton And G. Wilkinson "Advanced Inorganic Chemistry" (1972).
- 98- A.B.P. Lever, J. Chem. Education., 45, 711 (1968).
- 99-P.A. Chaloner "Theoretical Inorganic Chemistry" McGraw Hill Inc., New York (1969).
- 100- J. Lewis and Wilkins R.G., "Modern Coordination Chemistry" Interscience, New York (1960).
- 101- P.C. Jain and H.L. Nigam, Inorg. Chem. Acta, 1, 265 (1967).
- 102- J. Heyrovesky and J. Kuta, "Principle of polarography" Publishing House of the Czech. Acad. Sci, 1965, p. 61.

- 103- P. Zuman, "The Elucidation of Organic Electrode Process"
Academic Press, N.Y., 1969, P. 28.
- 104- P.T. Kissinger and W.R. Heineman, *J. Chem. Education*, 91, 772
(1983).
- 105- P. Delahay, "New Instrumental Methods In Electrochemistry".
Interscience Publishers, Inc. N.Y., 1953, Chap. 6.
- 106- R.S. Nicholson and I. Shain, *Anal. Chem.*, 36, 706 (1964).
- 107- W.M. Schwarz and I. Shain, *J. Phys. Chem.*, 69, 20 (1965).
- 108- J. E. B. Randels, *Trans. Faraday Soc.*, 44, 322 (1955).
- 109- A. Sevcik, *Coll. Czech. Chem. Commun.*, 13, 349 (1948).
- 110- W. Kemula and Z. Kublik, *Anal. Chem., Acta*, 18, 104 (1954).
- 111- H. Matsuda and Y. Ayabe, *Z. Electrochem.*, 59, 494 (1955).
- 112- A. J. Bard and L.R. Faulkner, "Electrochemical Methods
Fundamentals and Applications" Jon Wiley, N. Y., 1980, p. 218.
- 113- D. H. Evans, K.M. O' Connell, R.A. Peterson and M. J. Kelly, *J.
Chem. Education*, 60 (4), 290 (1983).
- 114- P.T. Kissinger and W.R. Heineman, Eds., "Laboratory Techniques
in Electroanalytical Chemistry", Dekker, N. Y. 1985.
- 115- Z. Galus, "Fundamentals of Electrochemical Analysis", Ellis
Harwood, Chapt. 7, 1976.
- 116- J. Heyrovsky, "Polarographie", Springer Verlage, Wien, 1941,
p.185.
- 117- M. Shikata and I. Tachi; *Collec. Czech. Chem. Commun.*, 10, 368
(1935).
- 118- J. E. Lafter and E. Grunwald, "Rates and Equilibrium of Organic
Reactions", John Wiley and Sons, N.Y., 1963.
- 119- C.D. Ritchie and W.F. Sager, "Progress in Physical Organic
Chemistry" Vol.2, Interscience Publishers, Inc, 1964, p. 334.

- 120- R.W. Taft, " Separation of Polar, Steric and Resonance Effects in Reactivity".
- 121- I. M. Kolthoff, J. Lingane : Polarography. Theoretical principles, Instrumentation and Technique, Vol.1, P. 58 (1965).
- 122- D.Ilkovic and J. Hehyrovesky; Coll. Czech. Chem. Commun., 6, 498 (1934).
- 123- Y. M. Temerk, I. M. Issa, M. M. Ghoneim and Z.A. Ahmed, J. Electrochem. Soc., India, 37 (3), 155 (1978).