

REFERENCES

Chapter :1

1. World Steel in Figures 2019, World Steel Association.
2. Press Information Bureau, Government of India, Ministry of Steel, 24, December, 2019
3. National Steel Policy 2017, Ministry of Steel (Establishment Division), Notification, New Delhi, India. 2017 May 8, pp. 1-36.
4. Y. Chokshi, N. Sompura and S. K. Dutta : Utilization of Steel Plants Waste, Material Science and Engineering International Journal, Vol 2(5), 2018, pp. 144-147.
5. Indian Minerals Yearbook 2017 (Part- III : Mineral Reviews), 56th Edition, Iron Ore, Government of India, Ministry of Mines, Indian Bureau of Mines, March, 2018.
6. <https://www.coal.nic.in/content/coal-reserves>
7. M. C. Bagatini, V. Zymła, E. Osório et. al.: Characterization and Reduction Behavior of Mill Scale. ISIJ International, 51(7), 2011, pp. 1072-1079.
8. B. Das, S. Prakash, P.S.R. Reddy, and V.N. Misra: An overview of utilization of slag and sludge from steel industries. Resources, Conservation and Recycling, 50, 2007, pp. 40–57.
9. Ela. Jha and S. K. Dutta: Optimization of Binder for Improving Strength and Shatter Index of Briquettes for BOF Dust using Design of Experiments, International Journal of Engineering and Advanced Technology (IJEAT) (ISSN: 2249 – 8958), Vol 9(1), Oct 2019, pp. 6282-6287.
10. Sushovan Sarkar: Solid wastes generation in steel industry and their recycling potential, Management & utilisation of wastes from metal processing industries and thermal power stations, organized by Millenium Institute of Energy & Environment Management, March 2015, pp 1-14
11. O. N. Mohanty: Major Metal Industries: Management of Environment & Sustainable Growth, IIM Metal News, Vol. 13, No. 4, Aug 2010, pp 11-16.
12. J. Aota, L. Morin, Q. Zhuang and B. Clements: Direct Reduced Iron Producing Using Cold Bonded Carbon Bearing Pellets, Ironmaking and Steelmaking, Vol 33(5), 2006, pp. 426-28.
13. S. K. Dutta and A. Ghosh: Evaluation of Various Cold Bonding Techniques for Iron Ore-Coal/Char Composite Pellets, Trans. Ind. Inst. Met., Vol 48(1), Feb 1995, pp.1-13.

14. A.Ghosh: Kinetics and Mechanism of Reduction in Composite Iron Ore-Reductant Pellets, Proc. Inter. Conf. on Alternative Routes of Iron and Steelmaking, Perth, Australia, Sep 1999, pp. 71-78.
15. S. K. Dutta and R. Sah :Alternate Methods of Ironmaking (Direct Reduction and Smelting Reduction Processes), S. Chand & Co Ltd, New Delhi, April 2012.
16. B. Das, S. Prakash, P. S. R. Reddy, S. K. Biswal, B. K. Mohapatra, V. N. Misra: Effective Utilization of Blast Furnace Flue Dust of Integrated Steel Plants, The European Journal of Mineral Processing and Environmental Protection Vol 2(2), 2002, pp. 61-68.
17. Fahri Demircia, Ahmet Turana, Onuralp Yücel: An Investigation On The Direct Reduction Of Mill Scale From Continuous Steel Casting, International Iron & Steel Symposium, 02-04 April 2012, Karabük, Türkiye, Pp. 253-259.
18. Zhang Huaiwei, Hong Xin: An overview for the utilization of wastes from stainless steel industries, Resources, Conservation and Recycling, 55 (2011), pp. 745–754.
19. Ratnakar Bonda, Harikrishna Maddu, Supartick Gupta: Umashankar Attel, Venkatesh R. Suribabu Pandiri, Recovery of Iron Ore values from Tailing Pond through Gravity and Magnetic Separation at JSW Steel Limited- Case Study, xvii International Seminar on Mineral Processing Technology, MPT- October 2018 Dhanbad, P 122
20. Ela Jha and S. K. Dutta: Effective Recycling and Utilization of BOF Dust by Two Stage Beneficiation:, xvii International Seminar on Mineral Processing Technology, MPT- October 2018, Dhanbad, P 178
21. Anton Andersson, Amanda Gullberg, Adeline Kullerstedt, Hesham Ahmed,· Lena Sundqvist-Okvist, Caisa Samuelsson: Upgrading of Blast Furnace Sludge and Recycling of the Low-Zinc Fraction via Cold-bonded Briquettes, Journal of Sustainable Metallurgy (2019) 5, pp 350–361

Chapter :2

22. Annual Report 2018-19, Ministry of Steel, Government of India.
23. Priyadarshini Nirlipta and S Nayak: Characterization and utilization of solid wastes generated from Bhilai steel plant, May 2008 M Tech Thesis Department of Mining Engineering National Institute of Technology Rourkela, May, 2008

24. Donetsk: Reclamation of Dumped Sludge in Steel Industry, Journal of the Republic Environmental Control and Rational Utilization of Natural Resources., 1993, Vol. 1719, No 4, pp. 92-96
25. R.C. Gupta: Utilisation of Solid Waste from Conventional Steel Plants for Preparation of Value Added Products, Environmental Management in Metallurgical Industries (EMMI-2010), 27-34
26. Amit Kumar: Utilisation of Wastes from Integrated Steel Plant with Special Reference To India, International Journal of Engineering Research & Technology (IJERT)Vol. 3 Issue 1, January – 2014, pp 47-52.
27. Oss van and G. Hendrik: Iron and Steel, Slag [Advanced Release]: 2007 Minerals Yearbook, US Geological Survey.
28. R. Jha: Utilization of Wastes in Integrated Steel Plant, All India Symposium on Converting Wastes into Wealth, B.I.T Sindri, 2005.
29. C. Samuelsson and B. Björkman: Scand. J. Metall., 27 (1998), 54.
30. L. Nedar: Dust formation in a BOF converter, Steel Research International, 67 (1996) 320.
31. I. Hahn & D. Neuschütz: Ejection of steel and slag droplets from gas stirred steel melts, Processes, Products and Applications, Ironmaking & Steelmaking, Volume 29(3), 2002, PP. 219-223
32. Ulrika Leimalm, Maria Lundgren, Lena Sundqvist Ökvist and Bo Björkman: Off-gas Dust in an Experimental Blast Furnace Part 1: Characterization of Flue Dust, Sludge and Shaft Fines, ISIJ International, Vol. 50 (11), 2010, pp. 1560–1569
33. A. Rehmat, M. C. Mensinger: Recovery of direct reduced iron from blast furnace dust, Second international symposium on extraction and processing for the treatment and minimization of wastes; 1996. p. 27–30.
34. B. Sharma, K. B. Downing, E. Aukrust: Recovery of iron, carbon and zinc from steel plant waste oxides using the AISI-DOE post combustion smelting technology. Steelmak Conf Proc 1996;79: 667–84.
35. . H. K. Chen, C.I. Lin, S. H. Liu: Carbothermic reduction of sludges of blast furnace and basic oxygen furnace. Scand J Metallurgy, Vol 21(5), 1992, pp. 218–22.
36. Indian Minerals Yearbook 2015 (Part- III : Mineral Reviews), p 22, Indian Bureau of Mines

37. Raj kumar Agrawal, Pandey: Productive recycling of basic oxygen furnace sludge I integrated steel plant, journal of scientific and industrial research, Vol. 64, September 2005, pp 702 – 706
38. N.L. Weiss, Particle Characterization, Mineral Processing Handbook. American Institute of Mining and Metallurgical, 1, :1985, 142-156.
39. K.Oseo-Asare, [D.W.Fuerstenau](#): Adsorption phenomena in hydrometallurgy, 1 The uptake of copper, nickel and cobalt by oxide adsorbents in aqueous ammoniacal solutions, Journal of colloid and interface science, Volume 118, Issue 2, August 1987, pp 524-542.
40. T.K. Chakravarty AND S.K. Panigrahi: Strategies for solid waste management in SAIL, steel plants Proceedings: NS-EWM 1996 @ NML. Jamshedpur, pp.52-62.
41. Fionn MacKillop: The construction of ‘waste’ in the UK steel industry, Journal of Environmental Planning and Management Vol. 52, No. 2, March 2009, 177–181.
42. Shobhana Dey, Santosh Pani, M. K. Mohanta, and R. Singh: Utilization of Iron Ore Slimes: A Future Prospective, Separation Science and Technology, Mineral Processing Division, Council of Scientific and Industrial Research, National Metallurgical Laboratory, Jamshedpur, Accepted author version posted online: 15 Nov 2011. Published online: 06 Apr 2012.
43. Y Du, Chaopeng, Li and L Xiao: Recovery Of Iron Values From Iron Ore Washing Plant Slimy Tailing Pond, XXVI International Mineral Processing Congress(IMPC) 2012 Proceedings / New Delhi, India / 24 - 28 September 2012, pp 1250-1257.
44. B John Samuel Thella, Asim Kumar Mukherjee and Y. Rajshekar: Recovering Iron Values From Iron Ore Slimes Using Cationic And Anionic Collectors, Proceedings of the XI International Seminar on Mineral Processing Technology (MPT-2010) pp. 247–254.
45. S.M. Lal, Mohan Ram and C.S. Gundewar: Beneficiation Of A Low Grade Magnetite Ore From Jharkhand Area, Proceedings of the XI International Seminar on Mineral Processing Technology (MPT-2010), pp 559-563.
46. T.V.Vijayakumar. D. S. Rao, S.Subba Rao, S.Prabhakar and G.Bhaskar Raju: Reverse flotation studies on an Indian low grade iron ore slimes International Journal of Engineering Science and Technology Vol. 2(4), 2010, 637-648.
47. Anupam A. G. Singh, P.K. Raghav and N. Suresh: Studies On Beneficiation Of Bhq Samples By Different Methods Proceedings of the XI International Seminar on Mineral Processing Technology (MPT-2010)© NML Jamshedpur, pp. 572–582.

48. Elves Matiolo, A Souza, R T Rodrigues and J Rubio : Treatment Of A Low Grade Compact Itabirite Iron Ore From Carajás – Brazil Xxvi International Mineral Processing Congress(Impc) 2012 Proceedings / New Delhi, India .
49. Guishan Zheng, Kun Xiong, and Xing keYang: Beneficiating Of Oolitic Hematite With High Phosphorous Content From West Region Of Hubei Province ,Xxvi International Mineral Processing Congress(Impc) 2012 Proceedings / New Delhi, India / 24 - 28 September 2012, pp 6135-6143.
50. M Bhartia, T C Rao, and A Bandyopadhyay : Iron Ore Processing In India- A Holistic Approach, Xxvi International Mineral Processing Congress(Impc) 2012 Proceedings / New Delhi, India / 24 - 28 September 2012 pp 480-494.
51. Pradip: Processing Of Alumina-Rich Indian Iron Ore Slimes, International Journal of Minerals, Metals and Materials Engineering, 59(5), 2006, pp 551-568
52. Ahmed A. S. Seifelnassr, Eltahir M. Moslim, Abdel-Zaher M. Abouzeid: Effective Processing Of Low-Grade Iron Ore Through Gravity And Magnetic Separation Techniques, Physicochem. Probl. Miner. Process. 48(2), 2012, 567–578.
53. L. D. Nikitin, V. A. Dolinskii, S. A. Kudashkina, L. V. Portnov, and S. F. Bugaev, Recycling Metallurgical Waste in Blast-Furnace Smelting ISSN 0967-0912, Steel in Translation, 2007, Vol. 37, No. 10, pp. 898–899.
54. S. K. Dutta and Y. Chokshi : Basic Concepts of Iron and Steel Making, Springer Nature, March 2020.
55. M. A. Goksel, T.A. Schott and F.T. Kaiser: Hot Metal Production from Iron Oxide in the Cupola by the MTU-PelleTech Cold Bonded Agglomeration Process, Proc. 4th Int. Symp. on Agglomeration, Toronto, Canada, June 1985, pp. 401-08.
56. J.F. Gransden, D.A. Reeve, J.H. Walsh and J.E. Rehder: Ironmaking From Peace River Iron Ore by Smelting Ore- Char Briquettes in a Cupola, The Canadian Mining and Metallurgical Bulletin, Vol. 71 (795), 1978, pp. 153-59.
57. N. Shivaramakrishna, B.B. Agrawal, A.K. Ray, K.K. Prasad, P.K. Bandopadhyay and S.K. Gupta: Production of High Carbon Sponge Iron from Ore-Coal Composite Pellets, Trans. Ind. Inst. Met, Vol. 43, No. 2, April 1990, pp. 95-101.
58. B. B. Agrawal, R.K. Vijayavergia, K.K. Prasad and H.S. Ray: Development of Cold Bonded Ore-coal Composite Pellets for Sponge Ironmaking, Proc. Int. Conf. on Recent Advances in Metallurgical Processes, IISc, Bangalore, 1997, pp. 259- 263.
59. H. Xi-Lun: Iron Steel (China), Vol. 14, 1979, p. 45 [Met. A: 8002 42-0157].

60. H.D. George and E.B. Boardman: IMS-Grangcold Pelletizing System for Steel Mill Waste Material, *Iron and Steel Engineers*, Vol. 50, No. 11, 1973, pp. 60-64.
61. A. Ganguly and A.A. Patalah: Sponge Iron Fines as a Binder in Ore-coal Composite Pellets, *Trans. Ind. Inst. Met.*, Vol. 43, No. 5, Oct 1990, pp. 288-93.
62. S. R. Raval and S.K. Dutta: Utilization of Iron Ore Fines by Innovated Cold Bonded Technique, *Proc. Int. Conf. on Recent Advances in Metallurgical Processes*, IISc, Bangalore, 1997, pp. 269-74.
63. R. Sah and S. K. Dutta: Effects of binder on the properties of iron ore-coal composite pellets, *Mineral Processing and Extractive Metallurgy Review*, 31(2), 2010, pp 73-85
64. S.K. Dutta and A. Ghosh: Study of Non-isothermal Reduction of Iron Ore-Coal/Char Composite Pellets”, *MetalL and Mat. Trans.*, Vol. 25B, Feb 1994, pp.15-26.
65. B.H. Huang and W.K. Lu: Kinetics and Mechanisms of Reactions in Iron Ore-Coal Composites, *Iron Steel InstJpn. Int*, Vol. 33, No. 10, 1993, pp.1055-61.
66. S.K. Dutta: Kinetics and Mechanism of Iron Ore-Coal Composite Pellets Reduction, *Trans. Ind. Inst Met*, Vol. 58, No. 5, Oct 2005, pp. 801-808.
67. Q. Wang, Z. Yang, J. Tian, W. Li and J. Sun: Mechanism of Reduction in Iron Ore-Coal Pellet, *Ironmaking and Steelmaking*, Vol. 24, 1997, pp. 457-460.
68. O.M. Fortini and R.J. Fruehan: Rate of Reduction of Ore-Carbon Composites: PartI. Determination of Intrinsic Rate Constant, *Metall. and Mat. Trans. B*, Vol. 36B, Dec 2005, pp. 865-872.
69. R. Takahashi: *Proc. 6th Int Iron and Steel Congress, Nagoye*, Vol.1, 1990, p. 108.
70. Q.A.K. Ansari, S.J. Ahier and A.R.E. Singer: Crushing Strength and Reduction of Bitumen-bonded Magnetite Super-concentrate, *Ironmaking and Steelmaking*, Vol. 11, No. 5, 1984, pp. 237-245.
71. S. K. Dutta and Y. Chokshi: Utilization of Iron Ore and Coal Fines by Producing Composite Briquette/Pellets, *Proc. of Inter. Mineral Processing Congress 2012 (IMPC 2012)*, Sep 2012, New Delhi, pp 1269-1278.
72. A. Ghosh: Fundamentals of Productivity of Smelting Reduction Processes:, *Proc.Int. Conf. on Alternative Routes to Iron and Steel*, Jamshedpur, India, 1996, pp. A 17-30.
73. R. Sah and S. K. Dutta: Smelting Reduction of iron Ore-Coal Composite Pellets, *Steel Research International (A journal for steel and related materials)*, Vol 81, No. 6, 2010, pp. 73-85.
74. J. Srb and Z. Reziekova: *Pelletization of Fines*, p.18, ELSEVIER Science Publishers, Amsterdam, 1988.

75. J.B. Patil, N.K. Kakkar, T.M. Srinivasan, S. Dharanipalan, B.B. Patel and N.M. Nayak: Production of Cold Bonded Pellets:, Trans. Ind. Inst. Met., Vol. 33, No. 5, Oct 1980, pp. 382-90.
76. F. Patisson, E. Lebas, F. Hanrot, D. Ablitzer and J. Houzelot: Coal Pyrolysis in a Rotary Kiln: Part-I Model of a Pyrolysis of a Single Grain, Metall. and Mat. Trans. B, Vol. 31B, April 2000, pp. 381-390.
77. C.Y. Wen and S. Dutta: Coal Conversion Technology, Ed. C.Y. Wen and E. Stanley Lee, p. 57, Addison-Wesley Publishing Co. Inc., Massachusetts, 1979.
78. Rene Cypres and Claire Soudan-Moinet: Pyrolysis of Coal and Iron Oxides Mixtures. Part I: Influence of Iron Oxides on the Pyrolysis of Coal, FUEL, Vol. 59, Jan 1980, pp. 48-54.
79. Rene Cypres and Claire Soudan-Moinet: Pyrolysis of Coal and Iron Oxides Mixtures. Part II: Reduction of Iron Oxides , FUEL, Vol. 60, Jan 1981, pp. 33-39.
80. M.C. Abraham and A. Ghosh: Kinetics of Reduction of Iron Oxide by Carbon, Ironmaking and Steelmaking, Vol. 6, 1979, pp. 14-23.
81. A. Ghosh and S.K. Ajmani: Proc. Symp. on Kinetics of Metallurgical Processes , IIT, Kharagpur, 1987, p. 1-6.
82. C.E. Seaton, J.S. Foster and J. Velasco: Reduction Kinetics of Hematite and Magnetite Pellets Containing Coal Char, Trans. Iron Steel Inst. Jpn., Vol. 23, 1983, pp. 490-96.
83. F.J. Weiss, M.A. Goksel and T. F. Kaiser: Production of Hot Metal from Carbon bearing Iron Oxide Pellets by the PelleTech (PTC) Process, Iron Steel Engineers, Vol. 63, No. 2, 1986, pp. 34-40.
84. T. Sharma: Non-coking Coal Quality and Composite Pre-reduced Pellets, Int. Journal of Mineral Processing, Vol. 39, 1993, pp. 299-311.
85. R.C. Nascimento, M.B. Mourao and J.D.T. Capocchi: Microstructures of Self reducing pellets Bearing Iron Ore and Carbon, Iron Steel Inst Jpn. Int, Vol. 37, No. 11, 1997, pp. 1050-56.
86. M.C. Goswami: Interrelation Between Kinetics of Reduction and Volume Change During Formation of Directly reduced Iron Rod, Steel Research, Vol. 68, No. 12, 1997, pp. 507-11.
87. R. Takahashi, X. Zhang, and J. Yagi: Reduction Mechanism of Oxidized Iron-Scrap Briquettes Containing Pulverized Coke During Heating, China-Japan Int. Symp. on Environmental Problem in Chinese Iron-Steelmaking Industries and Effective Technology Transfer, Sendai, Japan, Mar 2000, pp. 73-83.

88. E. Kasai, T. Kitajima and T. Kawaguchi: Carbothermic Reduction in the Combustion Bed Packed with Composite Pellets of Iron Oxide and Coal, *Iron Steel Inst. Jpn. Int.*, Vol. 40, No. 9, 2000, pp. 842-849.
89. A.A. El-Geassy, M.H. Khedr, M.I. Nasr and M.S. Aly: Behaviour of Iron Ore-Fuel Composite Pellets in Isothermal and Nonisothermal Reduction Conditions, *Ironmaking and Steelmaking*, Vol. 28, No. 3, 2001, pp. 237-243.
90. T. Sharma and L.N. Upadhyaya: Effect of Reducing Agents on Reduction Behaviour of Composite Pellets, *Journal of IE (I) - MM*, Vol. 83, Aug 2002, pp. 20-24.
91. D.M. Santos and M.B. Muraao: High temperature Reduction of Iron Oxides by Solid Carbon or Carbon Dissolved in Liquid Iron-Carbon Alloy, *Scandinavian Journal of Metallurgy*, Vol. 33, No. 4, Aug 2004, pp. 229-235.
92. I. Sohn and R.J. Fruehan: The Reduction of iron oxides by volatiles in a rotary hearth furnace process: Part I. The Role and Kinetics of Volatile Reduction, *Metall. and Mat. Trans. B*, Vol. 36B, Oct 2005, pp. 605-611.
93. I. Sohn and R.J. Fruehan: The Reduction of Iron Oxides by Volatiles in a Rotary Hearth Furnace Process: Part II. The Reduction of Iron Oxides/Carbon Composites, *Metall. and Mat. Trans. B*, Vol. 37B, April 2006, pp. 223-229.
94. I. Sohn and R.J. Fruehan: The Reduction of Iron Oxides by Volatiles in a Rotary Hearth Furnace Process: Part III. The Simulation of Volatile Reduction in a Multi-Layer Rotary Hearth Process, *Metall. and Mat. Trans. B*, Vol. 37B, April 2006, pp. 231-238.
95. Q. Zhuang, B. Clements, J. Aota and L. Morin: DRI Production Using Cold Bonded Carbon Bearing Pellets: Part-II: Rotary Kiln Process Modelling, *Ironmaking and Steelmaking*, Vol. 33, No. 5, 2006, pp. 429-432.
96. R. Sah and S. K. Dutta: Kinetic Studies of Iron Ore–Coal Composite Pellet Reduction by TG–DTA, *Trans Indian Inst Met*, 64, Dec 2011, pp 583–591.
97. Amit Chatterjee: Alternative Routes of Ironmaking - The Indian Perspective, *Proc. Int. Conf. on Alternative Routes to Iron and Steel*, Jamshedpur, India, 1996, pp. A45-66.
98. J.P. Hoffman: A Look at the Problems Facing the Developers of Smelting Reduction Using the Liquid Bath Approach, *Steel Research*, 1977, Vol. 62, No. 8, 1991, pp. 331-332.
99. P. Bhattacharya, S.S. Chatterjee, B.N. Singh and S. Prasad: Emerging Technologies for Ironmaking-An Indian Perspective, *Proc. Int. Conf. on Alternate Route of Iron and Steelmaking*, Perth, Australia, Sep 1999, pp. 151-158.

- 100 J.C. Lee, D.J. Min and S.S. Kim: Reaction Mechanism on the Smelting Reduction of Iron Ore by Solid Carbon, Metall. and Mat Trans. B, vol. 28B, Dec 1997, pp. 1019-1028.
- 101 T. K. Roy: The Coke - Will it be The Cause? IIM Metal News, Vol. 9, No. 1, Feb 2006, pp. 5-14.
- 102 M.A. Goksel: Agglomeration-77, Vol. 2, p. 877, [Ed: K.V.S. Sastry], AIME, New York, 1977.
- 103 S. K.Dutta and A. Ghosh: New Charging Material for Cupola, IIF Trans., Vol.72, 1994, pp.123-126.
- 104 J.C. Lee, D.J. Min and S.S. Kim: Reaction Mechanism on the Smelting Reduction of Iron Ore by Solid Carbon, Metall. and Mat Trans. B, vol. 28B, Dec1997, pp. 1019-1028.
- 105 A.Ghosh: Kinetics of Reduction of FeO in slag by Carbon, Proc. Workshop on Production of Liquid Iron Using Coal, Bhubaneswar, Aug 1994, pp. 139-142.
- 106 R.K. Paramguru, R.K. Galgali and H.S. Ray: Influence of Slag and Foam Characteristics on Reduction of FeO-Containing Slags by Solid Carbon, Metall and Mat. Trans. B, Vol. 28B, Oct 1997, pp. 805-810.

Chapter: 3

- 108 R.S. Khandpur (Editor): Handbook of Analytical Instruments, 1989 (Eleventh Reprint 2002), Tata McGraw Hill Publishing Co. Ltd., pp. 202-337.
- 109 J.P. Sibilila (Editor): A Guide to Materials Characterization and Chemical Analysis, 1988, VCH Publishers, Inc. New York.
- 110 D. B. Cullity: Elements of X-Ray Diffraction, Department of Metallurgical Engineering and Materials Science University of Nôtre Dame, Addison-Wesley Publishing Company Inc. Second Edition 1978, p. 101.

Chapter: 4

- 111 Rama Rao. S., Padmanabhan. G.: Application of Taguchi Methods and ANOVA in optimization of process parameters for metal removal rate in electrochemical machining of Al-5%SiC composites, International Journal of Engineering Research and Applications (IJERA), 2(3), May-Jun 2012, pp. 192-197.
- 112 Tosun, N. and Ozler, L.: Optimization for Hot Turning Operations with Multiple Performance Characteristics, International Journal of Advanced Manufacturing Technology, 23 (11-12), 2004, PP 777-782.
- 113 Srinivas A., Venkatesh, Y. D.: Application of Taguchi Method for optimization of process parameters in improving the surface roughness of lathe facing operation, International Refereed Journal of Engineering and Science (IRJES), 1(3), November 2012, PP 13-19.
- 114 Taguchi Techniques for Quality Engineering, Phillip J. Ross; 2nd edition, Tata McGraw-Hill publication, 2005.
- 115 Ng Chin Fei, Nik Mizamzul Mehat and Shahrul Kamaruddin: Practical applications of Taguchi Method for optimization of processing parameters for plastic injection moulding: A Retrospective Review, ISRN Industrial Engineering, Volume 2013 (2013), Article ID 462174
- 116 N.S. Dhole, G.R Naik, M.S. Prabhawalkar: Optimization of milling process parameters of En 33 using taguchi parameter design approach, Journal of Engineering Research and Studies, III(I), January-March, 2012, pp 70-77.
- 117 Hongliang Han, Dongping Duan and Peng Yuan: Binders and Bonding Mechanism for RHF Briquette Made from Blast Furnace Dust, ISIJ International, Vol. 54 (8),2014, pp. 1781–1789.

118 www.sciencedirect.com/topics/food-science/molasses

119 Q. Wang, Z. Yang, J. Tian, W. Li and J. Sun: Mechanism of Reduction in Iron Ore-Coal Pellet, Ironmaking and Steelmaking, Vol. 25, 1998, p. 443.

120 M. C. Goswami, S. Prakash, and S. B. Sarkar: Steel Research, Vol. 70, 1999, p. 41.

121 T. Jiang, G. Qui, J. Xu, D. Zhu, and R. Singh: Direct Reduction of Composite Binder Pellets and Use of DRI, Electrotherm (India) Ltd., Ahmedabad (2007).

Chapter : 5

122 P.N. Bhagwati: My Experience with Induction Melting, FOUNDRY, Vol. 1, No. 2, Jan/Feb 1989, pp. 3-9.

123 Lecture notes prepared by Faculty of Metallurgical and Materials Engineering Department, IIT Bombay, Mumbai.

124 P.L. Jain: Principles of Foundry Technology, Fourth Edition, Third Reprint - 2004, Tata McGraw Hill Publishing Co. Ltd., pp. 230-33.