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- Pvt. Ltd., New Delhi, 2004 37. Numerical Methods: Principles, Analysis, And Algorithms by S. Pal, Oxford University Press, 2009
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- Chennei, 2004 46. Solid State Physics Principles And Applications by R. Asokamani, Anamaya Publishers & New Delhi, 2006
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- Limited, New Delhi, 2009
 8. Chemical Engineering Thermodynamics by Y. V. C. Rao, Universities Press, 1997
- 8. Chemical Engineering Thermodynamics by Y. V. C. Rao, Universities Press, 1997 9. Chemical Engineering Thermodynamics by S. Sundaram, R. N. Ahuja Book Company. New Delhi. 1998
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- 12. Elements Of Thermal Technology by J. H. Seely, Marcel Dekker Inc., New York, U. S. A., 2002
- 13. Elements of Thermodynamics and Heat Transfer by O. N. Young, McGraw-Hill, Tokyo, 1986
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