


Bio-Data

PROFESSOR SUHAS P. SUKHATME



- Full Name** : SUHAS PANDURANG SUKHATME
- Date of Birth & Place** : November 5, 1938, Baroda
- Parents** : (Late) Dr. Pandurang V. Sukhatme
Mrs. Indumati Sukhatme
- Wife** : Mrs. Shobha Sukhatme
- Children** : Gaurav and Jai Sukhatme
- Present Position** : Professor Emeritus, Mechanical Engineering Dept.,
Indian Institute of Technology Bombay
- Residential Address** : Flat 2-A / 8-C, Anjaneya Coop. Hsg. Society
Orchard Avenue, Opp. Hiranandani Foundation
School, Powai, Mumbai-400 076, India
-  : 25701052
- Academic Career** : - B.Sc.(Engg.) - First class first
Banaras Hindu University (1958)
- S.M. (Master of Science), M.I.T. (1960)
- Mech. E. (Mechanical Engineer), M.I.T. (1961)
- Sc. D. (Doctor of Science) M.I.T. (1964)
- Fields of Specialization** : Heat Transfer,
Solar Energy

Posts Held

- Chairman, Atomic Energy Regulatory Board, Govt. of India
(Jan. 2000- Jan.2005)
- Director, Indian Institute of Technology, Bombay
(Jan. 1995 - Jan. 2000)
- Deputy Director, Indian Institute of Technology, Bombay
(Dec. 1983 - Dec. 1985)
- Visiting Professor, Mechanical Engineering Department,
Iowa State University, USA - (1982-1983)
- Head, Mechanical Engineering Department, Indian Institute of
Technology, Bombay (IIT Bombay) - (1973-1975)
- Professor, Mechanical Engineering Department,
IIT Bombay - (1970 - onwards)
- Assistant Professor, Mechanical Engineering Department,
IIT Bombay - (1965-1970)
- Staff Engineer, Dynatech Corporation, Cambridge,
Mass., U.S.A. - (1964-1965)
- Research Assistant, Mechanical Engineering Department,
Massachusetts Institute of Technology, Cambridge,
Mass., USA - (1959-1964)

Honours & Awards

- "Prince of Wales Gold Medal" for standing first class first in Banaras Hindu
University in 1958
- Elected member of Society of Sigma Xi in 1964
- Elected Fellow, Maharashtra Academy of Sciences in May 1976
- "S.S. Bhatnagar Prize for Science & Technology" in the discipline of
Engineering Sciences, 1983
- Elected Fellow, Indian Academy of Sciences, 1986
- Elected Fellow, Indian National Academy of Engineering, 1987
- Elected Fellow, Indian National Science Academy, 1995
- Elected Fellow, National Academy of Sciences, 1999
- Padma Shri 2001
- First Recipient of Lifetime Achievement Award of IIT Bombay, 2001
- Doctor of Science (Honoris Causa), Banaras Hindu University, 2001
- Om Prakash Bhasin Award, 2001

Professional Memberships

- Life Member, Indian Society for Heat and Mass Transfer
- Fellow, Indian Society for Technical Education
- Life Member, Solar Energy Society of India

Current Honorary Work

- Member, Promotions and Assessment Committee, Indian Institute of Science, Bangalore
 - Member, Board of Research in Nuclear Sciences, Department of Atomic Energy, Government of India.
 - Member, Board of Governors, Institute of Chemical Technology, Mumbai
 - Member, Board of Governors, NITIE, Mumbai
 - Member, Advisory Council, Indian Institute of Technology, Bombay.
-

Ph.D. Theses Guided

- (1) Combined free and forced convection heat transfer from a horizontal circular cylinder in a transverse flow - N.D. Joshi (1971)
- (2) Heat transfer from vertical rectangular cross-sectioned fins losing heat by free convection and radiation - C.G. Advani (1971)
- (3) Convective heat transfer within fibrous insulation slabs - D.K. Joshi (1974)
- (4) Natural convection heat transfer from horizontal rectangular fin arrays - N.K. Sane (1974)
- (5) Properties of R22-R12 mixtures and their application to the study of binary annular two-phase flow with heat transfer - S.G. Kandlikar (1975)
- (6) Effect of free convection and free stream turbulence on local heat transfer from a horizontal circular cylinder in cross flow at low Reynolds numbers - T.S. Sharma (1975)
- (7) Effect of length scale and intensity of free stream turbulence on local forced convection heat transfer from a circular cylinder - N.R. Yardi (1979)
- (8) Thermal conductivity of liquid mixtures - U.N. Gaitonde (1978)

- (9) Heat transfer from rectangular cross-sectioned vertical fin arrays - N.H. Saikhedkar (1980)
- (10) Natural convection heat transfer from rectangular fin arrays - M.A.I. Shalaby (1983).
- (11) Studies on the rewetting of hot horizontal surfaces - V. Venkat Raj (1985)
- (12) Experimental studies on convective heat transfer from rectangular plates inclined at different angles of attack and yaw - D.G. Motwani (1985)
- (13) Effect of free steam turbulence on the convective heat transfer to gas turbine blades - V. Krishnamoorthy (1986)
- (14) Heat transfer during film condensation of R-11 vapour on single horizontal enhanced condenser tubes - P. Prabhakaran (1988)
- (15) Energy analysis of air separation processes - R. Banerjee (1991)
- (16) Heat transfer by mixed convection in plain tubes and in tubes with twisted tapes - P.S. Bandopadhyay (1991)
- (17) Performance studies on solar concrete collectors - S.V, Bopshetty (1992)
- (18) Experimental studies on turbulent heat transfer from shrouded fin arrays - S.B. Thombre (1994)
- (19) Heat Transfer during film condensation of R-123 vapour on horizontal integral-fin tubes - L.K. Sreepathi (1994)

A. Research Papers Published in Journals

- A1. F.A. McClintock and S.P. Sukhatme, 'Travelling Cracks in Elastic Materials under Longitudinal Shear', J. Mech. Phys. Solids, 8, 187-193, 1960.
- A2. S.P. Sukhatme and W.M. Rohsenow, 'Heat Transfer during Film Condensation of a Liquid Metal Vapour'. Journal of Heat Transfer, Trans. ASME, 88, 19-28, 1966.
- A3. C.J. Oberhauser and S.P. Sukhatme, 'Evaluation of Optimum Current-Carrying Leads for Cryogenic Apparatus', Advances in Cryogenic Engineering, 12, 322-330, 1967.

- A4. A.A. Ivin and S.P. Sukhatme, 'Specific Heat of Methanol-Water Solution using a Calorimeter with an Adiabatic Shell, Indian J. of Technology, 5, 249-250, 1967.
- A5. S.P. Sukhatme and M.B. Kamath, 'Distortion-free Heat Treatment of an Aluminium with Liquid Nitrogen, Indian J. of Alloy Technology, 6, 352-354, 1968.
- A6. S.P. Sukhatme and N. Saikhedkar, 'Heat Capacities of Glycerol-Water Mixtures and Aqueous Solutions of Ammonium Sulphate, Ammonium Nitrate and Strontium Nitrate;', Indian J. of Technology, 7, 1-4, 1969.
- A7. G.K. Sharma and S.P. Sukhatme, 'Combined Free and Forced Convection Heat Transfer from a Heated Tube to a Transverse Air Stream', Journal of Heat Transfer, Trans. ASME, 91, 457-459, 1969.
- A8. T.S. Sarma and S.P. Sukhatme, 'Effect of Transverse Vibrations on Heat Transfer by Natural Convection from a Horizontal Plate', Indian J. of Technology, 8. 439- 442.1970.
- A9. N.D. Joshi and S.P. Sukhatme, 'An Analysis of Combined Free and Forced Convection Heat Transfer from a Horizontal Circular in a Transverse Flow', Journal of Heat Transfer, Trans. ASME, 93, 441-448, 1971.
- A10. C.G. Advani and S.P. Sukhatme, 'Analysis of a Vertical Cross-Sectional Fin Losing Heat by Laminar Free Convection', Indian J. of Technology, 11, 105-109, 1973.
- A11. D.K. Joshi and S.P. Sukhatme, 'Convective Heat Transfer within Fibrous Insulation Slabs', Warme and Stoffubertra-gung, 6, 183-190, 1973.
- A12. S.G. Kandlikar, C.A. Bijlani and S.P. Sukhatme, 'Predicting the Properties of Mixtures of R22 and R12, Part I, Thermodynamic, Properties', ASHRAE Transactions, 81(1), 266-284, 1975.
- A13. S.G. Kandlikar, C.A. Bijlani and S.P. Sukhatme, 'Predicting the Properties of Mixtures of R22 and R12, Part II, Transport Properties', ASHARE Transactions, 81(1), 285-294, 1975.
- A14. T.S. Sarma and S.P. Sukhatme, 'Local Heat Transfer from a Horizontal Cylinder to Air in Cross Flow : Influence of Free Convection and Free Stream Turbulence', International J. Heat and Mass Transfer, 20, 51-56, 1977.

- A15. S.P. Sukhatme and S.G. Kandlikar, 'Guarded Hot Plate Method for Determination of Thermal Conductivity of Thermal Insulation Materials', *ISI Bulletin*, 29(3), 84- 85, 1977.
- A16. U.N. Gaitonde, D.D. Deshpande and S.P. Sukhatme, 'The Thermal Conductivity of Liquid Mixtures', *Industrial and Engineering Chemistry Fundamentals*, 17, 321- 325, 1978.
- A17. Vijay Modi and S.P. Sukhatme, 'Estimation of Daily Total and Diffuse Insolation in India from Weather Data', *Journal of Solar Energy*, 22(5), 407-411, 1979.
- A18. S.P. Sukhatme and N.H. Saikhedkar, 'Natural Convection Heat Transfer from Rectangular Cross-Sectioned Vertical Fin Arrays', *Journal of Thermal Engineering*, 1, 125-132, 1980.
- A19. S.P. Sukhatme and R.R. Kulkarni, 'Performance Studies on the Absorption Refrigeration System of a Solar Cold Storage Unit', *Journal of Thermal Engineering*, 2, 105-110, 1982.
- A20. M.A.I. Shalaby, U.N. Gaitonde and S.P. Sukhatme, 'Laminar Natural Convection in an Enclosed Square Cavity', *Journal of Thermal Engineering*, 3, 72-82, 1983.
- A21. M.A.I. Shalaby, U.N. Gaitonde and S.P. Sukhatme, 'Natural Convection Heat Transfer from Rectangular Vertical Fin Arrays', *Indian J. of Technology*, 22, 321- 327, 1984.
- A22. D.G. Motwani, U.N. Gaitonde and S.P. Sukhatme, 'Heat Transfer from Rectangular Plates Inclined at Different Angles of Attack and Yaw to an Air Stream', *Journal of Heat Transfer, Trans. ASME*, 107, 307-312, 1985.
- A23. A. Jaganmohan, B.S. Jagadish and S.P. Sukhatme, 'Performance of a 20 kW Low Temperature Rankine Cycle Power Plant', *SESI Journal*, 1, 19-29, 1987.
- A24. S.P. Sukhatme, U.N. Gaitonde, S.V. Kulkarni and A. Majumdar, 'Laminar Convective Heat Transfer to a Thermic Fluid in a Tube with a Twisted Tape', *Regional J. of Energy, Heat and Mass Transfer*, 10, 89-95, 1988. Also Proceedings, Eighth National Heat and Mass Transfer Conference, Vishakhapatnam, Paper No.HMT-C21-85, 279-293, 1985.
- A25. V. Krishnamoorthy, B.R. Pai and S.P. Sukhatme, 'Influence of Upstream Flow Conditions on the Heat Transfer to Nozzle Guide Vanes', *Journal of Turbomachinery, Trans. ASME*, 110, 412-416, 1988.

- A26. R. Banerjee and S.P. Sukhatme, 'Estimates of the Time for which India's Coal Reserves will Last', *Urja*, 23, 287-290, 1988.
- A27. S.P. Sukhatme and I. Mahadevan, 'Brain Drain' and the IIT Graduate, Part I - Magnitude of the Brain Drain, Part II - Understanding the Brain Drain Process', *Economic and Political Weekly*, 23, 1285-1293, 1988.
- A28. J.K. Nayak, S.P. Sukhatme, R.G. Limaye and S.V. Bopshetty, 'Performance Studies on Solar Concrete Collectors', *Journal of Solar Energy*, 42, 45-46, 1989.
- A29. V. Krishnamoorthy and S.P. Sukhatme, 'Effect of Free Stream Turbulence on Gas Turbine Blade Heat Transfer', *Journal of Turbomachinery, Trans. ASME*, 111, 497-501, 1989.
- A30. P. Prabhakaran, B.S. Jagadish and S.P. Sukhatme, 'Parametric Study of Film Condensation of R11 Vapour on Single Horizontal Low Integral-Fin Tubes', *Regional J. of Energy, Heat and Mass Transfer*, 12, 83-90, 1990. Also, *Proceedings, Tenth National Heat and Mass Transfer Conference, Srinagar*, 335- 339, 1989.
- A31. S.P. Sukhatme, B.S. Jagadish and P. Prabhakaran, 'Film Condensation of R11 Vapour on Single Horizontal Enhanced Condenser Tubes', *Journal of Heat Transfer, Trans. ASME*, 112, 229-234, 1990.
- A32. R. Banerjee, K.G. Narayankhedkar and S.P. Sukhatme, 'Exergy Analysis of Pressure Swing Adsorption Processes for Air Separation', *Chemical Engineering Science*, 45, 467-475, 1990.
- A33. P.S. Bandopadhyay, U.N. Gaitonde and S.P. Sukhatme, 'Influence of Free Convection on Heat Transfer during Laminar Flow in Tubes with Twisted Tapes', *Experimental Thermal and Fluid Science*, 4, 577-586, 1991.
- A34. R. Banerjee, K.G. Narayankhedkar and S.P. Sukhatme, 'Exergy Analysis of Kinetic Pressure Swing Adsorption Processes - Comparison of Different Cycle Configurations', *Chemical Engineering Science*, 47, 1307-1311, 1992.
- A35. M.V. Indulkar and S.P. Sukhatme, 'Effect of Fin Height on Heat Transfer during Condensation of R11 on Horizontal Integral-Fin Tubes', *Indian J. of Technology*, 30, 387-391, 1992.
- A36. S.P. Sukhatme, 'Large Scale Electrical Power Generation through the Solar Thermal Route', *SESI Journal*, 2, 35-40, 1992.
- A37. S.P. Sukhatme, 'The Real Brain Drain', *Current Science*, 63, 544-546, 1992.

- A38. S.V. Bopshetty, J.K. Nayak and S.P. Sukhatme, 'Performance Analysis of a Solar Concrete Collector', *Energy Conversion Management*, **33**, 1007-1016, 1992.
- A39. S.P. Sukhatme, 'Nature of Work and Employment Profiles of Graduate and Postgraduate Alumni of the Indian Institute of Technology, Bombay', *International Journal of Engg. Education*, **10**, 100-110, 1994.
- A40. P.P. Parikh and S.P. Sukhatme, 'Women Engineers in India - Present Scenario and Current Trends', *Journal of Scientific and Industrial Research*, **53**, 233-247, 1994.
- A41. S.B. Thombre and S.P. Sukhatme, 'Turbulent Flow Heat and Transfer and Friction Factor Characteristics of Shrouded Fin Arrays with Uninterrupted Fins', *Experimental Thermal and Fluid Science*, **10**, 388-396, 1995.
- A42. S.P. Sukhatme, 'Restructuring the Undergraduate Curriculum in Engineering in an Indian University', *Indian J. of Technical Education*, **18(3)**, 1-4, 1995.
- A43. L.K. Sreepathi, S.L. Bapat and S.P. Sukhatme, 'Heat Transfer during Film Condensation of R-123 Vapour on Horizontal Integral-Fin Tubes', *Journal of Enhanced Heat Transfer*, **3**, 147-164, 1996.
- A44. S.P. Sukhatme and J.K. Nayak, 'Solar Energy in Western Rajasthan', *Current Science*, **72**, 62-68, 1997.
- A45. S.P. Sukhatme, 'The Energy Crisis and Possible Alternatives', *Chemical Industry News*, **XLII**, 93-107, 1997.

B. Papers Presented at Conference/Symposia and Published in Proceedings

- B1. S.P. Sukhatme and J.C. Chato, 'Dehumidification of Air over a Flat Plate and in a Plate-Fin Heat Exchanger', *Proceedings, International Symposium on Humidity and Moisture, Washington, D.C. Vol.II*, 364-375, 1963.
- B2. S.P. Sukhatme and W.M. Rohsenow, 'Heat Transfer during Film Condensation of a Liquid Metal Vapour', *Proceedings, High Temp. Liquid Metal Heat Transfer Technology Conference, Vol.2*, 132-152, 1963.
- B3. S.P. Sukhatme, M. Hurwitz and S.E. Sadek, 'Heat Transfer in the Liquid-Liquid Spray Tower', *Symposium on Desalination, Sixtieth National Meeting, AiChE, Atlantic City, N.J., U.S.A., Re-print 21E*, 1966.

- B4. N.D. Joshi and S.P. Sukhatme, 'Experimental Investigation of the Local and Overall Heat Transfer due to Combined Free and Forced Convection from a Horizontal Circular Cylinder to Air', Proceedings, First National Heat and Mass Transfer Conference, Madras, Paper No.HMT-39-71, 1971.
- B5. N.K. Sane and S.P. Sukhatme, 'Natural Convection Heat Transfer from Long Horizontal Fin Arrays', Proceedings, Second National Heat and Mass Transfer Conference, Kanpur, Paper No.A-7, 1973.
- B6. N.K. Sane and S.P. Sukhatme, 'Natural Convection Heat Transfer from Horizontal Rectangular Fin Arrays', Proceedings, Fifth International Heat Transfer Conference, Tokyo, Vol.III, 114-118, 1974.
- B7. S.G. Kandlikar and S.P. Sukhatme, 'Binary Annular Two-Phase flow with Mixtures of R22 and R12', Proceedings, Third National Heat and Mass Transfer Conference, Bombay, Paper No.HMT-58-75, 1975.
- B8. S.R. Munje, G.H. Malkani and S.P. Sukhatme, 'Temperature Rise Prediction in an Induction Motor', Proceedings, Third National Heat and Mass Transfer Conference, Bombay, Paper No.HMT-84-75, 1975.
- B9. A. Jaganmohan and S.P. Sukhatme, 'A Transient Method for the Determination of Thermal Conductivity and Heat Capacity of Slab Insulations', Proceedings, Fourth National Heat and Mass Transfer Conference, Roorkee, Paper No.4HMT 68, 643- 651, 1977.
- B10. N.R. Yardi and S.P. Sukhatme, 'Effects of Turbulence Intensity and Integral Length Scale of a Turbulence Free Stream on Forced Convection Heat Transfer from a Circular Cylinder in Cross Flow', Proceedings, Sixth International Heat Transfer Conference, Toronto, Paper No.FC(b)29, 347-352, 1978.
- B11. Vijay Modi and S.P. Sukhatme, 'Prediction of Hourly Solar Radiation in India on Clear Days', Proceedings, National Solar Energy Convention, Bhavnagar, Paper No.A 2, 8-13, 1978.
- B12. S.P. Sukhatme, S.G. Kandlikar, G.K. Sharma and S. Arun Kumar, 'Performance Studies on a Flat Plate Collector Array with Booster Mirrors and an Associated Hot Water Thermal Storage Tank', Proceedings, National Solar Energy Convention, Bombay, Paper 7, 36-40, 1978.
- B13. S.P. Sukhatme, S.G. Kandlikar, G.K. Sadekar and S.H. Bhavnani, 'Development and Testing of an Ammonia-Water Absorption Refrigeration System for a Cold Storage Unit using Solar Energy', Proceedings, National Solar Energy Convention, Bombay, Paper 37, 193-197, 1979.

- B14. N.H. Saikhedkar, B.V. Karlekar and S.P. Sukhatme, 'Radiative Heat Transfer from Rectangular Cross-Sectioned Fin Arrays', Proceedings, Fifth National Heat and Mass Transfer Conference, Hyderabad, Vol.I, 127-132, 1980.
- B15. S.P. Sukhatme, 'Natural Convection Heat Transfer from Rectangular Fin Arrays', Invited Lecture, Proceedings, Fifth National Heat and Mass Transfer Conference, Hyderabad, Vol.III, 75-98, 1980.
- B16. S.P. Sukhatme, G.K. Sharma and S.P. Mulay, 'Experimental Performance of a Flat Plate Collector Array with Booster Mirrors', Proceedings, National Solar Energy Convention, Annamalai, 143-147, 1980.
- B17. N.H. Saikhedkar and S.P. Sukhatme, 'Combined Natural Convection and Radiative Heat Transfer from Rectangular Cross-Sectioned Vertical Fin Arrays - A Conjugate Solution', Proceedings, Sixth National Heat and Mass Transfer Conference, Madras, Section I, 1-5, 1981.
- B18. V. Venkat Raj, S.P. Sukhatme and S.K. Mehta, 'Experimental Investigations on the Rewetting of Hot Horizontal Surfaces', Proceedings, Seventh International Heat Transfer Conference, Munich, Paper No.FB 26, 327-332, 1982.
- B19. U.N. Gaitonde, C. Amarnath and S.P. Sukhatme, 'Design and Development of a Cylindrical Parabolic Concentrating Collector', Proceedings, National Solar Energy Convention, Baroda, 1983.
- B20. D.G. Motwani, U.N. Gaitonde and S.P. Sukhatme, 'Local Heat Transfer Distributions in Forced Convection over a Rectangular Plate Bounded by Short Walls', Proceedings, Eighth National Heat and Mass Transfer Conference, Vishakhapatnam, Paper No.HMT-C29-85, 317-321, 1985.
- B21. D.G. Motwani, U.N. Gaitonde and S.P. Sukhatme, 'Local Heat Transfer and Fluid Flow Studies on a Rectangular Plate Inclined and Different Angles of Attack and Yaw to an Air Stream', Proceedings, Eighth International Heat Transfer Conference, San Francisco, 1059-1063, 1986.
- B22. N. Sonwalkar, S.P. Sukhatme, J.K. Nayak and R.G. Limaye, 'Studies on the Feasibility of Metal Fibre Reinforced Concrete Solar Collectors', Proceedings, 7th Miami International Conference on Alternative Energy Sources, Vol..I, 101-114, 1987.
- B23. S.P. Sukhatme, U.N. Gaitonde, C.S. Shidore and R.S. Kuncolienkar, 'Forced Convection Heat Transfer to a Viscous Liquid in Laminar Flow in a tube with

- a Twisted Tape', Proceedings, Ninth National Heat and Mass Transfer Conference, Bangalore, Paper No.HMT-7-87, Section B, 1-7, 1987.
- B24. S.P. Sukhatme, 'Condensation on Enhanced Surface Horizontal Tubes', Keynote Lecture, Proceedings, Ninth International Heat Transfer Conference, Jerusalem, Vol.1, 305-326, 1990.
- B25. P.S. Bandopadhyay, U.N. Gaitonde and S.P. Sukhatme, 'Heat Transfer by Combined Free and Forced Laminar Convection to a Thermic Fluid Flowing in a Heated Horizontal Tube', Proceedings, Second World Conference on Experimental Heat Transfer, Fluid Mechanics and Thermodynamics, Dubrovnik, Yugoslavia, 729-735, 1991.
- B26. J.K. Nayak, S.V. Bopshetty and S.P. Sukhatme, 'Thermal Performance of Solar Concrete Collector', Proceedings, Solar World Congress, Denver, U.S.A., Vol.2, 1239-1244, 1991.
- B27. L.K. Sreepathi and S.P. Sukhatme, 'Condensation of R11 Vapour on Horizontal Integral-Fin tubes with Drainage Strips', Proceedings, Eleventh National Heat and Mass Transfer Conference, Madras, 105-109, 1991.
- B28. L.K. Sreepathi, S.L. Bapat and S.P. Sukhatme, 'An Experimental Study on the Condensing Heat Transfer Characteristics of R123', Proceedings, 1st ISHMT-ASME Heat and Mass Transfer Conference and 12th National Heat and Mass Transfer Conference, Bombay, 459-462, 1994.

C. Chapters Contributed in Books

- C1. W.M. Rohsenow and S.P. Sukhatme, Chapter on 'Condensation' in 'Modern Developments in Heat Transfer' by M. Rohsenow (Editor), M.I.T. Press, 293-318, 1964.
- C2. S.P. Sukhatme, Contribution on 'Heat Transfer from Rectangular Vertical Fin Arrays', in 'Current Research in Heat and Mass Transfer' by M.V. Krishna Murthy, V.M.K. Sastri, S.P. Sukhatme and P.K. Sarma (Editors), Hemisphere Publishing Corporation, New York, 245-258, 1986.
- C3. S.P. Sukhatme, Contribution on 'Hot Water Storage Systems', in 'Solar Water Heating Systems', by H.P. Garg (Editor), D. Reidel Publishing Co., 113-123, 1986.
- C4. S.P. Sukhatme, Three chapters on 'Classification of Heat Transfer Equipment', 'Correlations in Single Phase Convection Heat Transfer' and 'Basic Theory of Condensation' in 'Heat Transfer Equipment Design' by R.K. Shah, E.C. Subba

Rao and R.A. Mashelkar (Editors), Hemisphere Publishing Corporation, New York, 7-16, 99-114, 439-450, 1987.

D. Books Published

- D1. S.P. Sukhatme, 'A Textbook on Heat Transfer', Orient Longman Ltd., Bombay, 1st edition, 1971; 2nd edition (revised), 1979, 3rd edition (revised), 1988; 4th edition (revised), 2005.
- D2. S.P. Sukhatme, 'Solar Energy - Principles of Thermal Collection and Storage', Tata-McGraw Hill, New Delhi, 1st edition, 1984; 2nd edition (revised), 1996; 3rd edition (revised), 2008.
- D3. S.P. Sukhatme, 'The Real Brain Drain', Orient Longman Ltd., Bombay, 1994

E. Research Reports

- E1. S.P. Sukhatme and W.M. Rohsenow, 'Heat Transfer during Film Condensation of a Liquid Metal Vapour', Report submitted to the Atomic Energy Commission, U.S.A., 1964.
- E2. S.P. Sukhatme, S.G. Kandlikar and G.K. Sharma, 'Design Development and Analysis of a Cold Storage Unit using absorption Refrigeration and Solar Energy- Part One and Two', Report submitted to the Department of Science and Technology, 1980.
- E3. S.P. Sukhatme and G.K. Sharma, 'Performance Studies on a Solar Cold Storage', Report submitted to the Department of Science and Technology, 1982.
- E4. S.P. Sukhatme, U.N. Gaitonde and C. Amarnath, 'Design and Development of a Cylindrical Parabolic Concentrating Collector Module', Report submitted to the Department of Non-Conventional Energy Sources, 1985.
- E5. S.P. Sukhatme, B.S. Jagadish and P. Prabhakaran, 'Development and Analysis of High Performance Enhanced Heat Transfer Condenser Tubing', Report submitted to CSIR, 1987.
- E6. S.P. Sukhatme and I. Mahadevan, 'Pilot Study on Magnitude and Nature of the Brain Drain of Graduates of the Indian Institute of Technology, Bombay', Report submitted to the Department of Science and Technology, 1987.

- E7. S.P. Sukhatme, 'A Study on the Nature of Work and Placement of Postgraduate Alumni of the Indian Institute of Technology, Bombay', Report submitted to the Department of Science and Technology, 1990.
- E8. P.P. Parikh and S.P. Sukhatme, 'Women Engineers in India', Report submitted to the Department of Science and Technology, 1992.
- E9. P.P. Parikh and S. P. Sukhatme, 'Women in the Engineering Profession in India'. Report submitted to the Department of Science and Technology, 2002.

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