

Bibliography.

- 1) Diller, T.E., "Advances in Heat Flux Measurements," in: Advances in Heat Transfer, Vol. 23, Eds. J.P. Hartnett et al., Academic Press, Boston, pp. 279–368, 1993.
- 2) Diller, T. E., and Kidd, C. T., "Evaluation of Numerical Methods for Determining Heat Flux with a Null Point Calorimeter," Proceedings of the 42nd International Instrumentation Symposium, ISA, Research Triangle Park, NC, pp.251-262, 1997.
- 3) Cook, W. J., and Felderman, E. J., "Reduction of data from Thin Film Heat Transfer Gages: A Concise Numerical Technique," AIAA Journal, Vol. 4, No. 3, pp. 561-562, 1996.
- 4) William, K.G., William, J.R., and Scott, H. W., "An Evaluation of Analog and Numerical Techniques for Unsteady Heat Transfer Measurement with Thin-film Gages in Transient Facilities," Calspan-UB Research Center, Buffalo, New York, Elsevier Science Publishing, New York, 1991.
- 5) Walker, G., "Estimation of Unsteady Nonuniform Heating Rates from Surface Temperature Measurements," Ph.D. Dissertation, Virginia Polytechnic Inst. and State Univ., 1997.
- 6) Beck, J. V., Blackwell, B., and St. Clair Jr., C. R., "Inverse heat conduction: Ill posed problems," New York, John Wiley & Sons, 1985.
- 7) Ozisik, M.N., "Boundary Value Problems of Heat Conduction," Constable and Company, Ltd., London, 1968.
- 8) Carslaw, H. S., and Jaeger, J.C., "Conduction of Heat in Solids," 2nd ed., Oxford University Press, London, pp85-88, 1959.

-
- 9) Cook, W. J., "Determination of Heat Transfer Rates from Transient Surface Temperature Measurements," AIAA Journal, Vol. 8, No. 7, pp. 1366-1368, 1970.
 - 10) Cook, W. J., "Unsteady Heat Transfer to a Semi-Infinite Solid with Arbitrary Surface Temperature History and Variable Thermal Properties," Tech. Report, Engineering Research Institute TR ISU-ERI-Ames 67500, Iowa State University, Ames, Iowa, 1970.
 - 11) Mills, A. F., "Basic Heat and Mass Transfer", Richard D. Erwin, Inc., Chicago, 1995.
 - 12) Ozisik, M.N., "Basic heat transfer," McGraw-Hill, Inc. New York, 1977.
 - 13) Tikhonov, R.E., and Arsenin, V.Y., "Solutions of Ill-Posed Problems," V.H. Winston & Sons, Washington D.C., 1977.
 - 14) Schetz, J.A., Diller, T.E., and Ng, W.F., "Measurements of unsteady turbine blade flow phenomena," Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24060-0203, USA, AIAA, 1999.
 - 15) Baumeister, J., and Reinhardt, H. J., "On the Approximate Solution of a Two-Dimensional Inverse Heat Conduction Problem," in Proceedings of the Inverse and Ill Posed Problems, eds. H. G. Engl and C. W. Groetsch, Academic Press, Orlando, Florida, 1987.
 - 16) Bird, C., Mutton, J.E., Shepherd, R., Smith, M.D.W., and Watson, H.M.L., "Surface Temperature Measurement in Turbines," Rolls-Royce Commercial Aero Engines Ltd., Derby, DE24 8BJ, UK.
 - 17) Carbon, M.W., Kutsch, H. J., and Hawkins, G.A., "The Response of Thermocouples to Rapid Gas-temperature Changes," Annual meeting of the ASME Heat Transfer Division, New York, November 1949.

-
- 18) Kidd, C.T., Nelson, C.G., and Scott, W.T., "Extraneous Thermoelectric EMF Effects Resulting from the Press-fit installation of Coaxial Thermocouples in Metal models," ISA, Paper #94 – 1022, 1994.
 - 19) Patankar, S.V., "Numerical heat transfer and fluid flow," Hemisphere Pub. Corp., Washington, 1980.
 - 20) Pulliam, W., Jones, M., Schetz, J.A. and Murphy, K., "Fiber Optic Pressure/Skin Friction Gage for Supersonic Flow Applications," 17th Int. Congress on Instrumentation in Aerospace Simulation Facilities, IEEE Congress Record, Sept. 1997.
 - 21) Schetz, J.A., "Direct Measurements of Skin Friction in Complex Flows," Appl. Mech. Rev., Vol. 50, No. 11, Pt. 2, Nov. 1997.
 - 22) Tsou, F., Chen, S.J., and Ko, S., "Measurements of Heat transfer Rates Using a Transient Technique," ASME, 345 E. 47 St., New York, N.Y.,10017.
 - 23) Kaufman, E., "Instantaneous temperature sensor," Medtherm Corporation, Huntsville Alabama, 1968.
 - 24) Wool, M.R., Schaefer, J.W., and Baker, D.L., "Measurement of Convective and Radiative Heat Fluxes at the Surface of an Ablative Material," Aerotherm Corporation, Mountain View, California, ISA Transactions, Vol. 9, No. 2, 1970.
 - 25) Stefanescu, S., DeAnna, R.G., and Mehregany, M., "Experimental performance of a Micromachined Heat Flux Sensor," 33rd AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit, Seattle, WA., July 1997.
 - 26) Diller, T. E., "Methods of Determining Heat Flux from Temperature Measurements," Department of Mechanical Engineering, Virginia Tech, Blacksburg, Virginia, pp. 357-369, 1996.

- 27) ASTM Committee E20 on Temperature Measurement, "Manual on the use of thermocouples in temperature measurement," Fourth Edition, Philadelphia, PA., 1993.
- 28) John L. Jaech. "Statistical Analysis of Measurement Errors" John Wiley & Sons, Toronto, Canada, 1985.
- 29) "Flotherm reference manual," Flomerics Limited, Surry, England, 1995.