



# PC-Aided Numerical Heat Transfer and Convective Flow

*Akira Nakayama*

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## **PC-Aided Numerical Heat Transfer and Convective Flow Akira Nakayama**

PC-Aided Numerical Heat Transfer and Convective Flow is intended as a graduate course textbook for Mechanical and Chemical Engineering students as well as a reference book for practitioners interested in analytical and numerical treatments in the subject. The book is written so that the reader can use the enclosed diskette, with the aid of a personal computer, to systematically learn both analytical and numerical approaches associated with fluid flow and heat transfer without resorting to complex mathematical treatments.

This is the first book that not only describes solution methodologies but also provides complete programs ranging from SOLODE to SAINTS for integration of Navier-Stokes equation.

The book covers boundary layer flows to fully elliptic flows, laminar flows to turbulent flows, and free convection to forced convection. The student will learn about convection in porous media, a new field of rapid growth in contemporary heat transfer research. A basic knowledge of fluid mechanics and heat transfer is assumed. It is also assumed that the student knows the basics of Fortran and has access to a personal computer. The material can be presented in a one-semester course or with selective coverage in a seminar.

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