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board is negligible.2 Heat transfer from the front surface is uniform.

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addition to the nine Visual Basic/Fortran modules, six projects intended for implementation by students are provided. A separate appendix on the CD-ROM teaches students everything they need to know about Visual Basic for Applications (VBA), the extremely powerful and flexible programming language incorporated into Excel. Instructors can use these modules as lecture aids in a classroom equipped with a projection system or as the nucleus of a "hands-on" approach to heat transfer instruction in a computer classroom. All the "canned" modules can be verified for at least some parameters by comparison with traditional analytical solutions or experimental data. Verification of results is stressed throughout. Introduces students to Computational Fluid Dynamics (CFD) by

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application to simple, fundamental problems. In contrast many practicing engineers are introduced to CFD only through two- or three-day short courses provided by vendors. Several of these modules have been under development for up to 15 years. Nearly all Visual Basic modules have been classroom-tested at the undergraduate level five times and at the graduate level twice. They have been debugged and enhanced extensively during that time.

Introduction to Thermodynamics and Heat Transfer provides balanced coverage of the basic concepts of thermodynamics and heat transfer. Together with the clear and numerous

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illustrations, student-friendly writing style, and manageable math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors. Continuing in the tradition of Cengel/Boles: Thermodynamics, this lavishly illustrated text presents the key topics in thermodynamics and heat transfer, in a highly accessible student-friendly fashion. The flexibly organized text can accommodate courses that spend anywhere from 1/3rd to 2/3rds or more of class time on thermodynamics and the rest on key heat transfer topics. The intuitive approach is supported by a wealth of physical explanations and analogies that draw parallels between the subject and the students' everyday experiences. Many of the 150 thoroughly worked out examples and almost 2,000 real-world problems, highlight

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applications from civil and electrical engineering. Over 1,000 illustrations help students visualize concepts, This approach and contents make this text an ideal resource for introduction to thermodynamics and/or thermal science courses intended for non-mechanical engineering majors.

This book insures the legacy of the original 1950 classic, Process Heat Transfer, by Donald Q. Kern. This second edition book is divided into three parts: Fundamental Principles; Heat Exchangers; and Other Heat Transfer Equipment/ Considerations. - Part I provides a series of chapters concerned with introductory topics that are required when solving heat transfer problems. This part of the book deals with topics such as steady-state heat

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conduction, unsteady-state conduction, forced convection, free convection, and radiation. - Part II is considered by the authors to be the “meat” of the book – addressing heat transfer equipment design procedures and applications. In addition to providing a more meaningful treatment of the various types of heat exchangers, this part also examines the impact of entropy calculations on exchanger design. - Part III of the book examines other related topics of interest, including boiling and condensation, refrigeration and cryogenics, boilers, cooling towers and quenchers, batch and unsteady-state processes, health & safety and the accompanying topic of risk. An Appendix is also included. What is new in the 2nd edition Changes that are addressed in the 2nd edition so that Kern ' s original work continues to

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remain relevant in 21st century process engineering include:

- Updated Heat Exchanger Design
- Increased Number of Illustrative Examples
- Energy Conservation/ Entropy Considerations
- Environmental Considerations
- Health & Safety
- Risk Assessment
- Refrigeration and Cryogenics
- Inclusion of SI Units

This textbook fosters information exchange and discussion on all aspects of introductory matters of modern mechanical engineering from a number of perspectives including: mechanical engineering as a profession, materials and manufacturing processes, machining and machine tools, tribology and surface engineering, solid mechanics, applied and computational mechanics, mechanical design,

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mechatronics and robotics, fluid mechanics and heat transfer, renewable energies, biomechanics, nanoengineering and nanomechanics. At the end of each chapter, a list of 10 questions (and answers) is provided.

NUMGE 2018 is the ninth in a series of conferences on Numerical Methods in Geotechnical Engineering organized by the ERTC7 under the auspices of the International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE). The first conference was held in 1986 in Stuttgart, Germany and the series continued every four years (1990 Santander, Spain; 1994 Manchester, United Kingdom; 1998 Udine, Italy;

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2002 Paris, France; 2006 Graz, Austria; 2010 Trondheim, Norway; 2014 Delft, The Netherlands). The conference provides a forum for exchange of ideas and discussion on topics related to numerical modelling in geotechnical engineering. Both senior and young researchers, as well as scientists and engineers from Europe and overseas, are invited to attend this conference to share and exchange their knowledge and experiences.

Consumer demand for a year-round supply of seasonal produce and ready-made meals remains the driving force behind innovation in frozen food technology. Now in its second edition, Handbook of Frozen Food Processing and Packaging explores the art and science of frozen foods and

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