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for a first one-semester course on CFD; in mechanical, chemical, and aeronautical engineering. Almost all the existing books on CFD assume knowledge of

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and differential
calculus as well as
numerical methods in
particular; thus,
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is made to simplify the
subject even for readers
who have little or no
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of fluid-dynamics,
heattransfer and
numerical-methods. The
major emphasis is on
simplification of the
mathematics involved by
presenting physical-law

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(instead of the traditional differential equations) based algebraic-formulations, discussions, and solution-methodology. The physical law based

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simplified CFD approach
(proposed in this book
for the first time)
keeps the level of
mathematics to school
education, and also
allows the reader to

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intuitively get started with the computer-programming. Another distinguishing feature of the present book is to effectively link the theory with the computer-

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program (code). This is done with more pictorial as well as detailed explanation of the numerical methodology. Furthermore, the present book is structured for a

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module-by-module code-development of the two-dimensional numerical formulation; the codes are given for 2D heat conduction, advection and convection. The

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present subject involves learning to develop and effectively use a product - a CFD software. The details for the CFD development presented here is the

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only limited to fluid dynamics but also includes heat transfer.

The reader is trained for a job as CFD developer as well as CFD application engineer;

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and can also lead to start-ups on the development of "apps" (customized CFD software) for various engineering applications. "Atul has

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championed the finite
volume method which is
now the industry
standard. He knows the
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bring students closer to
the subject and enable
them to contribute to
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MOSFET amplifiers, are explained comprehensively. The frequency response of amplifiers is explained in support. The detailed essential of rectifiers, filters, and power supplies are also incorporated in the

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interesting topic to another important topic.

Annotation As businesses increasingly stress the importance of cooperation and collaboration with suppliers and customers, relationship marketing is

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emerging as the `core' of all marketing activity. In recent years, there has been an explosive growth in business and academic interest in relationship marketing, yet no comprehensive book has been

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available to present key concepts, theories, and applications. The editors of this volume have assembled an authoritative and global cast of chapter contributors and crafted a volume that will become the seminal,

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reveals the surprising power
of the ordinary checklist We
live in a world of great and
increasing complexity, where
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professionals struggle to master the tasks they face. Longer training, ever more advanced technologies—neither seems to prevent grievous errors. But in a hopeful turn, acclaimed surgeon and writer

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nanoindentation has gained
significant momentum in recent
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books currently available which
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