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based on physical
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elementary calculus,
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Patankar, Suhas (1980)
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This book comprises selected papers from the International Conference on Numerical Heat Transfer and Fluid Flow (NHTFF 2018), and presents the latest developments in computational methods in heat and mass transfer. It also discusses numerical

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methods such as finite element, finite difference, and finite volume applied to fluid flow problems.

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contained, straigh

tforward treatment of

the practical details

involved in

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for numerical heat transfer and fluid flow analysis. Intended as an introduction to the field, the book emphasizes physical significance rather than mathematical manipulation.

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vertical rectangular
duct containing a
horizontal porous
medium and fluid layer

J.C. Umavathi , O.

Anwar Beg The

purpose of this paper is
to investigate
thermally and
hydrodynamically fully
developed convection
in a duct of rectangular
cross-section
containing a porous
medium and...

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primarily uses
elementary calculus
and simple algebra in
exploring and
developing numerical
procedures to predict
the behavior of various
processes. This is
mainly based on
physical
considerations.

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CRC Press, Jan 1, 1980
- Science - 214 pages.
11 Reviews. This book
focuses on heat and
mass transfer, fluid
flow, chemical
reaction, and...

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can be used as a heat-
transfer medium for
the fluidized bed
receiver.

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introduces
incompressible
Newtonian fluid flow
and heat transfer by
using the finite
difference method.
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the Navier-Stokes

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equation is not simple because of its unsteady and multi-dimensional characteristic, the present chapter focuses on the simplified flows owing to the similarity or periodicity. As a first section, the first Stoke problem is ...

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