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There are many distinct pleasures

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associated with
computer

programming.

Craftsmanship has

its quiet rewards,

the satisfaction that

comes from building

a useful object and

making it work.

Excitement arrives

with the flash of

insight that cracks a

previously

intractable problem.

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for elegance can turn the hacker into an artist. There are pleasures in parsimony, in squeezing the last drop of performance out of clever algorithms and tight coding. The games, puzzles, and challenge of problems from international programming competitions are a

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techniques to
predict the outcome
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and bet on them
successfully.

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an essential part of

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every scientific discipline. It has two components: (1) problem identification and formulation, and (2) solution of the formulated problem. One can solve a problem on its own using ad hoc techniques or follow those techniques that have produced

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to similar problems.

This requires the

understanding of

various algorithm

design techniques,

how and when to

use them to

formulate solutions

and the context

appropriate for each

of them. This book

advocates the study

of algorithm design

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techniques by
presenting most of
the useful algorithm
design techniques
and illustrating
them through
numerous
examples.

Creating robust
software requires
the use of efficient
algorithms, but
programmers

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seldom think about
them until a
problem occurs.

Algorithms in a
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a large number of
existing algorithms
for solving a variety
of problems, and
helps you select
and implement the
right algorithm for
your needs -- with
just enough math to

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Let you understand
and analyze

algorithm

performance. With

its focus on

application, rather

than theory, this

book provides

efficient code

solutions in several

programming

languages that you

can easily adapt to

a specific project.

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Each major algorithm is presented in the style of a design pattern that includes information to help you understand why and when the algorithm is appropriate. With this book, you will:

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- improve on the

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performance of an
existing solution

Quickly locate

algorithms that

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problems you want

to solve, and

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particular algorithm

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use Get algorithmic

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August 6, 2009

Author, Jon

Kleinberg, was

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techniques for problems that arise in computing applications. The text encourages an understanding of the algorithm design process and an appreciation of the role of algorithms in the broader field of computer science.

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