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introduction to
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addresses both
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Hopefully, by now,
you are convinced
that a systematic ,
disciplined , and
quantifiable approach
is needed to build
certain types of
software systems;
that is, software
engineering is
necessary to build
some (if not all)

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software products.

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...

Software engineering
is the study or
practice of using
computers and
computing
technology to solve
real-world problems.
Computer scientists

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study the structure, interactions and theory of computers and their functions.

Software engineering is a part of computer science in that software engineers use the results of studies to build tools and

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can have a multitude
of stakeholders, each
with specific wants
and needs that
influence the
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Some conflicting with each other! Each stakeholder believes he/she is correct. This requires some ...

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12 ...

Book Description.
Taking a learn-by-
doing approach,
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Capturing the
Requirements.
Designing the System.
Concerning Objects.
Writing the
Programs. Testing the
Programs. Testing the
System.

Software Engineering: Theory and Practice

This course is
intended to cover the

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CS1530 Software Engineering

Overview. KEY BENEFIT: This introduction to software engineering and practice

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addresses both
procedural and object-
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Emphasizes essential
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Engineering

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Lawrence Pfleeger
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This Companion
Website provides
additional materials
to be used with the
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software engineering

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readers wanting to
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knowledge of
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theory and practice
meld together

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with artistry and
design. It is a fine line
to walk – software
that is too “ pretty ”
but doesn ’ t function
isn ’ t effective, but
software that isn ’ t
written well can be
difficult as well.
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Emphasizes essential
role of modeling
design in software

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reference for software engineers.

Taking a learn-by-doing approach, Software Engineering Design: Theory and Practice uses examples, review questions, chapter exercises, and case study assignments to provide students and practitioners with the

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Understanding
required to design
complex software
systems. Explaining
the concepts that are
immediately relevant
to software designers,
it begins with a
review of software
design fundamentals.
The text presents a
formal top-down
design process that
consists of several

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it includes a step-by-step breakdown of the execution of the design solution, along with an evaluation, discussion, and justification for using that particular solution. The book outlines industry-proven software design practices for leading large-scale software design

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Software Engineering Body of Knowledge (SWEBOK®) Details a collection of standards and guidelines for structuring high-quality code
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The section on creating software design documents (SDD) familiarizes students with the software design notations, structural descriptions, and behavioral models required for SDDs. Course notes, exercises with answers, online

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resources, and an instructor 's manual are available upon qualified course adoption. Instructors can contact the author about these resources via the author's website: <http://softwareengineeringdesign.com/>

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educators, engineers,
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for their efforts reviewing the papers. Hoping you can find lots of profound research ideas and results on the related fields of Computer and Software Engineering.

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in the case study A set of case study exercises that provide an opportunity to engage students in software development practice, either individually or in a team environment. Offering a new approach to learning about software engineering theory and practice, the text

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is specifically designed to: Support teaching software engineering, using a comprehensive case study covering the complete software development lifecycle Offer opportunities for students to actively learn about and engage in software engineering practice Provide a

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realistic environment
to study a wide array
of software

engineering topics
including agile
development

Software Engineering
Practice: A Case Study
Approach supports a
student-centered,
"active" learning style
of teaching. The DH
case study exercises
provide a variety of

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opportunities for students to engage in realistic activities related to the theory and practice of software engineering. The text uses a fictitious team of software engineers to portray the nature of software engineering and to depict what actual engineers do when practicing

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software engineering.

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exercises in

collaborative

learning. Many of the exercises have

specific goals related to team building and teaming skills. The

text also can be used to support the

professional

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development or certification of practicing software engineers. The case study exercises can be integrated with presentations in a workshop or short course for professionals.

Evolution of software

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has long been recognized as one of the most problematic and challenging areas in the field of software engineering, as evidenced by the high, often up to 60-80%, life-cycle costs attributed to this activity over the life of a software system. Studies of software evolution

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are central to the understanding and practice of software development. Yet it has received relatively little attention in the field of software engineering. This book focuses on topics aimed at giving a scientific insight into the aspect of software evolution

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and feedback. In summary, the book covers conceptual, phenomenological, empirical, technological and theoretical aspects of the field of software evolution - with contributions from the leading experts. This book delivers an up-to-date scientific understanding of

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what software evolution is, to show why it is inevitable for real world applications, and it demonstrates the role of feedback in software development and maintenance. The book also addresses some of the phenomenological and technological underpinnings and

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includes rules and guidelines for increased software evolvability and, in general, sustainability of the evolution process. Software Evolution and Feedback provides a long overdue, scientific focus on software evolution and the role of feedback in the

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software process,
making this the
indispensable guide
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managers in the
software industry.

Software architecture
is foundational to the
development of large,
practical software-
intensive applications.

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tool, or process, this new text/reference widely surveys software architecture techniques, enabling the instructor and practitioner to choose the right tool for the job at hand. Software Architecture is intended for upper-division undergraduate and graduate courses in

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software engineering,
and distributed
systems; the text may
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