

```
-b) B=boption ; shift ;;
-c) C=coption ; shift ;;
-*) echo "bad option" ; exit 1 ;;
*0 process rest of files
esac
done
while test -n "$1"
do case $1 in
    -a) A=aoption ; shift ;;
    -b) B=boption ; shift ;;
    -c) C=coption ; shift ;;
    -*) echo "bad option" ; exit 1 ;;
    *0 process rest of files
esac
done
d='pwd'
for i in `ls -d $d/*`
do test -d $d/$i
then cd $d/$i
while echo "$i:"
do read x
do trap :2
# ignore interactive
eval $x
done
done
```

# THE DOMAIN THEORY

Patterns for Knowledge and Software Reuse

Alistair Sutcliffe



CRC Press  
Taylor & Francis Group

# Domain Theory Patterns For Knowledge And Software Reuse

**Shasha Hu**



## **Domain Theory Patterns For Knowledge And Software Reuse:**

**The Domain Theory** Alistair Sutcliffe, A.G. Sutcliffe, 2002-03-01 Is this book about patterns Yes and no It is about software reuse and representation of knowledge that can be reapplied in similar situations however it does not follow the classic Alexandrine conventions of the patterns community i e Problem solution forces context example etc Chapter 6 on claims comes close to classic patterns and the whole book can be viewed as a patterns language of abstract models for software engineering and HCI So what sort of patterns does it contain Specifications conceptual models design advice but sorry not code Plenty of other C code pattern books see PLOP series Nearest relative in published patterns books are Fowler's 1995 Analysis Patterns Reusable object models and Coad North and Mayfield What do you mean by a Domain Theory Not domains in the abstract mathematical sense but domains in the knowledge natural language sense close to the everyday meaning when we talk about the application domain of a computer system such as car rental satellite tracking whatever The book is an attempt to answer the question what are the abstractions behind car rental satellite tracking so good design solutions for those problems can be reused I work in industry so what's in it for me A new way of looking at software reuse ideas for organizing a software and knowledge reuse program new processes for reusing knowledge in requirements analysis conceptual modeling and software specification I am an academic should I be interested Yes if your research involves software engineering reuse requirements engineering human computer interaction knowledge engineering ontologies and knowledge management For teaching it may be useful for Master courses on reuse requirements and knowledge engineering More generally if you are interested in exploring what the concept of abstraction is when you extend it beyond programming languages formal specification abstract data types etc towards requirements and domain knowledge **ADDITIONAL COPY** Based on more than 10 years of research by the author this book is about putting software reuse on a firmer footing Utilizing a multidisciplinary perspective psychology and management science as well as software it describes the Domain Theory as a solution The domain theory provides an abstract theory that defines a generic reusable model of domain knowledge Providing a comprehensive library of reusable models practice methods for reuse and theoretical insight this book introduces the subject area of reuse and software engineering and explains a framework for comparing different reuse approaches develops a metric oriented framework to assess the reuse claims of three competing approaches patterns ERPs and the Domain Theory OSMs object system models explains the psychological background for reuse and describes generic tasks and meta domains introduces claims that provide a representation of design knowledge attached to Domain Theory models as well as being a schema for representing reusable knowledge in nearly any form reports research that resulted from the convergence of the two theories describes the methods techniques and guidelines of design for reuse the process of abstraction and elaborates the framework to investigate the future of reuse by different paradigms generation of applications from requirements languages and component based software engineering via reuse libraries **The Domain Theory** Alistair

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*Choice*, 2002 **11th IEEE International Requirements Engineering Conference**, 2003 **Third International Conference on Software Reuse: Advances in Software Reusability** William Bruce Frakes, 1994 **Conference Proceedings**, 2004 *Domain Knowledge for Interactive System Design* Alistair G. Sutcliffe, David Benyon, Frans van Assche, 1996-05-31 This book describes how domain knowledge can be used in the design of interactive systems It includes discussion of the theories and models of domain generic domain architectures and construction of system components for specific domains It draws on research experience from the Information Systems Software Engineering and Human Computer Interaction communities Information System Development Process Naveen Prakash, Colette Rolland, Barbara Pernici, 1993 This volume aims to pave the way to a greater understanding of the information system development process Traditionally information systems have been perceived as a slice of real world history This has led to a strong emphasis on the development of conceptual models the requirements specifications of which can readily be expressed However the route to such an expression or the process of development has not received any substantial attention It is now agreed that a study of the development process affords notable benefits Firstly it helps to create an understanding of what a realistic development process is and how it proceeds from an initial specification to its acceptable representation Secondly the nature of guidance that can be provided by the next generation of CASE tools can be substantially improved It can be expected that these tools will cease to be mere drafting aids and consistency checking programs Instead it is likely that they will provide a proactive environment in which the development engineer will play an important role This tool user symbiosis should have a beneficial impact on both the productivity of the developer and on the quality of the product In bringing together researchers and practitioners from such diverse areas as AI Software Engineering Decision Support and Information Systems it is hoped this publication will take the quest to comprehend information system development processes a significant step forwards

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web v m inus the system volume is the tank volume required a speci al n o te if this is a combination heating and domestic hot water heat exchanger application in the summer the only system volume you will have is the primary boiler piping loop to the heat exchanger t is th e min imu m su g g e ste d bo ile r f ir in g time

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web heat pumps a buffer tank is a vessel that is used in a heating system to contain a volume of heating system primary water it is a particularly important component of a heat pump system reducing the number of starts and stops that the heat pump has to make in order to meet the property s heat load in turn helping to increase the life

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web see the water heater s installation and operation manual for specific piping diagrams that match the inlet outlet water tapplings on the tank to the inlet outlet water tapplings on the water heater tapping locations on the water heater may vary by

product or manufacturer figure 2 2 vertical tank piping diagram non condensing copper fin

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web brands of buffer specific tanks on the market i m most familiar with this one it has seven 2 ports scattered around the tank and a few 3 4 on top anode rods can be added here if the tank is used for dhw and a 3 4 drain cock it can be used as a buffer with the ability to pipe in at the mid tank port

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web i piping diagrams figure 6 figure 7 notes this drawing is meant to demonstrate system piping concept only installer is responsible for all equipment and detailing required by local codes boiler circulator s must be rated for open loop applications do not use cast iron circulators boiler circulator s operate continuously

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web looking for a piping digram for the use of a buffer tank we ve installed many boilers with indirects but never had to use a buffer tank before

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web v buffer tank volume gallons t desired heat source on cycle min q heat source heat source output btu hr q min heat load heat output to minimum load tank temp rise deg f water to water heat pump example town and country mechanical wants a minimum heat pump on time of 10 minutes the heat pump output is 46 500 btu hr

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