

```
public class Charge  
{
```

*instance
variables*

```
private final double rx, ry;  
private final double q;
```

*class
name*

constructor

```
public Charge(double x0, double y0, double q0)  
{ rx = x0; ry = y0; q = q0; }
```

```
public double potentialAt(double x, double y)  
{  
    double k = 8.99e09;  
    double dx = x - rx;  
    double dy = y - ry;  
    return k * q / Math.sqrt(dx*dx + dy*dy);  
}
```

*instance
methods*

```
public String toString()  
{ return q + " at " + "(" + rx + ", " + ry + ")"; }
```

test client

```
public static void main(String[] args)  
{  
    double x = Double.parseDouble(args[0]);  
    double y = Double.parseDouble(args[1]);  
    Charge c1 = new Charge(0.51, 0.63, 21.3);  
    Charge c2 = new Charge(0.13, 0.94, 81.9);  
    double v1 = c1.potentialAt(x, y);  
    double v2 = c2.potentialAt(x, y);  
    StdOut.printf("%.2e\n", (v1 + v2));  
}
```

*create
and
initialize
object*

*invoke
constructor*

*object
name*

*invoke
method*

```
}
```

Programming Concepts Methods And Calculi

Association for Computing Machinery

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the text 'Association for Computing Machinery'.

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Programming Concepts and Methods PROCOMET '98 David Gries, Willem-Paul de Roever, 2013-04-17 This book constitutes the Proceedings of the IFIP Working Conference PRO COMET 98 held 8-12 June 1998 at Shelter Island N Y The conference is organized by the two IFIP TC 2 Working Groups 2.2 Formal Description of Programming Concepts and 2.3 Programming Methodology WG2.2 and WG2.3 have been organizing these conferences every four years for over twenty years The aim of such Working Conferences organized by IFIP Working Groups is to bring together leading scientists in a given area of computer science Participation is by invitation only As a result these conferences distinguish themselves from other meetings by extensive and competent technical discussions PROCOMET stands for Programming Concepts and Methods indicating that the area of discussion for the conference is the formal description of programming concepts and methods their tool support and their applications At PROCOMET working conferences papers are presented from this whole area reflecting the interest of the individuals in WG2.2 and WG2.3

Components Operationally: Reversibility and System Engineering Claudio Antares Mezzina, Alan Schmitt, 2025-11-19 This Festschrift is dedicated to Jean Bernard Stefani a leading researcher in the field of component based software engineering system modelling and formal methods for distributed systems From 2001 to 2015 Jean Bernard led first the SARDES research team at Inria Grenoble Rh ne Alpes then the SPADES research team and from 2015 to 2021 he was the Head of Science of the Inria Grenoble Rh ne Alpes Research Center Previously he worked at CNET Centre National d tudes des T l communications and France T l com R D He has been a long time board member of DisCoTeC the main conference on Distributed Computing Technologies and is a past chair of IFIP Working Group 6.1 His current research interests include concurrency theory reversibility process calculi and reactive and distributed programming languages In addition to his research and organizational achievements Jean Bernard has been an inspiring collaborator the scope and success of his career is reflected in the contributions to this volume

Mathematics of Program Construction Johan Jeuring, 1998-05-27 This book constitutes the refereed proceedings of the 4th International Conference on Mathematics of Program Construction MPC 98 held in Marstrand near Goteborg Sweden in June 1998 The 17 revised full papers presented were selected from 57 submissions also included are three invited contributions The volume is devoted to the use of crisp clear mathematics in the discovery and design of algorithms and in the development of corresponding software and hardware various approaches to formal methods for systems design and analysis are covered

Formal Techniques for Distributed Objects, Components, and Systems Valentina Castiglioni, Adrian Francalanza, 2024-06-12 This book constitutes the refereed proceedings of the 44th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2024 held in Groningen The Netherlands in June 2024 as part of the 19th International Federated Conference on Distributed Computing Techniques DisCoTec 2024 during June 17-21 2024 The 11 full papers and 2 short papers included in this book were carefully reviewed and selected

from 33 submissions They focus on fundamental research on theory models tools and applications for distributed systems

Concepts, Techniques, and Models of Computer Programming Peter Van Roy, Seif Haridi, 2004-02-20 Teaching the science and the technology of programming as a unified discipline that shows the deep relationships between programming paradigms This innovative text presents computer programming as a unified discipline in a way that is both practical and scientifically sound The book focuses on techniques of lasting value and explains them precisely in terms of a simple abstract machine The book presents all major programming paradigms in a uniform framework that shows their deep relationships and how and where to use them together After an introduction to programming concepts the book presents both well known and lesser known computation models programming paradigms Each model has its own set of techniques and each is included on the basis of its usefulness in practice The general models include declarative programming declarative concurrency message passing concurrency explicit state object oriented programming shared state concurrency and relational programming Specialized models include graphical user interface programming distributed programming and constraint programming Each model is based on its kernel language a simple core language that consists of a small number of programmer significant elements The kernel languages are introduced progressively adding concepts one by one thus showing the deep relationships between different models The kernel languages are defined precisely in terms of a simple abstract machine Because a wide variety of languages and programming paradigms can be modeled by a small set of closely related kernel languages this approach allows programmer and student to grasp the underlying unity of programming The book has many program fragments and exercises all of which can be run on the Mozart Programming System an Open Source software package that features an interactive incremental development environment **Refinement Calculus**

Ralph-Johan Back, Joakim Wright, 2012-12-06 Much current research in computer science is concerned with two questions is a program correct And how can we improve a correct program preserving correctness This latter question is known as the refinement of programs and the purpose of this book is to consider these questions in a formal setting In fact correctness turns out to be a special case of refinement and so the focus is on refinement Although a reasonable background knowledge is assumed from mathematics and CS the book is a self contained introduction suitable for graduate students and researchers coming to this subject for the first time There are numerous exercises provided of varying degrees of challenge *Formal*

Methods for Components and Objects Frank S. de Boer, Marcello Bonsangue, Susanne Graf, Willem-Paul de Roever, 2003-12-01 Large and complex software systems provide the necessary infrastructure in all industries today In order to construct such large systems in a systematic manner the focus in the development methodologies has switched in the last two decades from functional issues to structural issues both data and functions are encapsulated into software units that are integrated into large systems by means of various techniques supporting reusability and modifiability This encapsulation principle is essential to both the object oriented and the more recent component based software engineering paradigms

Formal methods have been applied successfully to the verification of medium sized programs in protocol and hardware design. However, their application to large systems requires the further development of specification and verification techniques supporting the concepts of reusability and modifiability. In order to bring together researchers and practitioners in the areas of software engineering and formal methods, we organized the 1st International Symposium on Formal Methods for Components and Objects (FMCO) in Leiden, The Netherlands, November 5-8, 2002. The program consisted of invited tutorials and more technical presentations given by leading experts in the fields of Theoretical Computer Science and Software Engineering. The symposium was attended by more than 100 people. This volume contains the contributions of the invited speakers to FMCO 2002. We believe that the presented material provides a unique combination of ideas on software engineering and formal methods which we hope will be an inspiration for those aiming at further bridging the gap between the theory and practice of software engineering.

Programming Concepts, Methods and Calculi E.-R. Olderog, 1994 *Mathematics of Program Construction*, 1998 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery, 2000 **The Cumulative Book Index**, 1996 A world list of books in the English language Proceedings of the ... ACM SIGPLAN International Conference on Functional Programming, 1996 **Constructing Programs from Specifications** Bernhard Möller, 1991 This book contains papers and discussion transcripts giving a good survey of the state of the art in deriving programs from their specifications by algebraic means. As opposed to the various refinement calculi for procedural programs, the setting here is mostly that of functional or to cope with nondeterminacy relational languages. First approaches to the classification of specifications allow the systematic solution of very general classes of problems. Also the analysis of the structure of developments is shown in several examples. Impressive work is presented in the area of automating standard derivation tasks both concerning semi-automatic construction of efficient data type implementations and automatic transformation of functional specifications into efficient code. Further papers address automatic program synthesis, rapid prototyping and transformational derivation of parallel algorithms. **Fundamental Approaches to Software Engineering**, 2003 *Principles and Practice of Constraint Programming*, 1995 *A Meta-calculus for Formal System Development* Matthias Weber, 1991 **Theoretical Aspects of Computer Software**, 1997 **Image Processing II** Jonathan M. Blackledge, Martin J. Turner, 2000 This work presents an up to date record of international research on image restoration on the interaction of image processing as it relates to mathematical modelling. It covers in great detail its reconstruction and restoration, image comprehension, fractals and wavelets, pattern recognition and image understanding. The level is appropriate for advanced study and advanced research for applied mathematicians, computer scientists, electrical and electro-mechanical engineers and scientists working in IT, remote sensing, medical imaging, vision systems, spectroscopy, virtual reality, military technology, electro-optics, biochemistry and cartography. **Researches in the Calculus of Variations, Principally on the Theory of Discontinuous Solutions** Isaac Todhunter, 1871 Computer Science Logic

Leszek Pacholski, Jerzy Tiuryn, 1995

Programming Concepts Methods And Calculi Book Review: Unveiling the Power of Words

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