# Chapter 3 Resource Algebra 1

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handbook of truly concurrent process algebra provides readers with a detailed and in depth explanation of the algebra used for concurrent computing this complete handbook is divided into five parts algebraic theory for reversible computing probabilistic process algebra for true concurrency actors a process algebra based approach secure process algebra and verification of patterns the author demonstrates actor models which are captured using the following characteristics concurrency asynchrony uniqueness concentration communication dependency abstraction and persistence truly concurrent process algebras are generalizations of the corresponding traditional process algebras handbook of truly concurrent process algebra introduces several advanced extensions and applications of truly concurrent process algebras part 1 algebraic theory for reversible computing provides readers with all aspects of algebraic theory for reversible computing including the basis of semantics calculi for reversible computing and axiomatization for reversible computing part 2 probabilistic process algebra for true concurrency provides readers with all aspects of probabilistic process algebra for true concurrency including the basis of semantics calculi for probabilistic computing axiomatization for probabilistic computing as well as mobile calculi for probabilistic computing part 3 actors a process algebra based approach bridges the two concurrent models process algebra and actors by capturing the actor model in the following characteristics concurrency asynchrony uniqueness concentration communication dependency abstraction and persistence part 4 secure process algebra demonstrates the advantages of process algebra in verifying security protocols it has a firmly theoretic foundation and rich expressive powers to describe security protocols part 5 verification of patterns formalizes software patterns according to the categories of the patterns and verifies the correctness of patterns based on truly concurrent process algebra every pattern is detailed according to a regular format to be understood and utilized easily which includes introduction to a pattern and its verifications patterns of the vertical domains are also provided including the domains of networked objects and resource management to help readers develop and implement the software patterns scientifically the pattern languages are also presented presents all aspects of full algebraic reversible computing including the basis of semantics calculi for full reversible computing and axiomatization for full reversible computing introduces algebraic properties and laws for probabilistic computing one of the

foundational concepts of computer science presents the calculi for probabilistic computing including the basis of semantics and calculi for reversible computing

this volume provides a unique collection of mathematical tools and industrial case studies in digital manufacturing it addresses various topics ranging from models of single production technologies production lines logistics and workflows to models and optimization strategies for energy consumption in production the digital factory represents a network of digital models and simulation and 3d visualization methods for the holistic planning realization control and ongoing improvement of all factory processes related to a specific product in the past ten years all industrialized countries have launched initiatives to realize this vision sometimes also referred to as industry 4 0 in europe or smart manufacturing in the united states its main goals are reconfigurable adaptive and evolving factories capable of small scale production high performance production combining flexibility productivity precision and zero defects energy and resource efficiency in manufacturing none of these goals can be achieved without a thorough modeling of all aspects of manufacturing together with a multi scale simulation and optimization of process chains in other words without mathematics to foster collaboration between mathematics and industry in this area the european consortium for mathematics in industry ecmi founded a special interest group on math for the digital factory m4difa this book compiles a selection of review papers from the m4difa kick off meeting held at the weierstrass institute for applied analysis and stochastics in berlin germany in may 2014 the workshop aimed at bringing together mathematicians working on modeling simulation and optimization with researchers and practitioners from the manufacturing industry to develop a holistic mathematical view on digital manufacturing this book is of interest to practitioners from industry who want to learn about important mathematical concepts as well as to scientists who want to find out about an exciting new area of application that is of vital importance for today s highly industrialized and high wage countries

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