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volume v is the counterpart of volume iv and treats hydrophilic colloids and related items contains edited contributions on steric stabilization depletion polyelectrolytes proteins at interfaces association colloids microemulsions thin films foams and emulsions j lyklema is coauthor of two chapters and general editor other authors include g j fleer f a m leermakers m a cohen stuart w norde j a g buijs j c eriksson t sottmann r strey d platikanov d ekserova v bergeron and p walstra this volume completes the prestigious series fundamentals of interface and colloid science together with volume iv this book provides a comprehensive introduction to colloid science explains and elaborates phenomena starting from basic principles and progresses to more advanced topics

procedural languages are generally well understood and their formal foundations cast in the forms of various lambda calculi for object oriented languages however the situation is not as clear cut in this book the authors propose and develop a different approach by developing object calculi in which objects are treated as primitives using object calculi the authors are able to explain both the semantics of objects and their typing rules and demonstrate how to develop all of the most important concepts of object oriented programming languages self

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dynamic dispatch classes inheritance protected and private methods prototyping subtyping covariance and contravariance and method specialization many researchers and graduate students will find this an important development of the underpinnings of object oriented programming

electrical engineering electromagnetics waves and fields in inhomogeneous media a volume in the ieee press series on electromagnetic waves donald g dudley series editor it is one of the best wave propagation treatments to appear in many years gerardo g tango cpg consulting seismologist acoustician covington la this comprehensive text thoroughly covers fundamental wave propagation behaviors and computational techniques for waves in inhomogeneous media the author describes powerful and sophisticated analytic and numerical methods to solve electromagnetic problems for complex media and geometry as well problems are presented as realistic models of actual situations which arise in the areas of optics radio wave propagation geophysical prospecting nondestructive testing biological sensing and remote sensing key topics covered include analytical methods for planarly cylindrically and spherically layered media transient waves including the cagniard de hoop method variational methods for the scalar wave equation and the electromagnetic wave equation mode matching techniques for inhomogeneous media the dyadic green s function and its role in simplifying problem solving in inhomogeneous media integral equation formulations and inverse problems time domain techniques for inhomogeneous media this book will be of interest to electromagnetics and remote sensing engineers physicists scientists and geophysicists this ieee press reprinting of the 1990 version published by van nostrand reinhold incorporates corrections and minor updating also in the series mathematical foundations for electromagnetic theory by donald g dudley university of arizona at tucson this volume in the series lays the mathematical foundations for the study of advanced topics in electromagnetic theory important subjects covered include linear spaces green s functions

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one of the characteristics of modern algebra is the development of new tools and concepts for exploring classes of algebraic systems whereas the research on individual algebraic systems e g groups rings lie algebras etc continues along traditional lines the early work on classes of alge bras was concerned with showing that one class x of algebraic systems is actually contained in another class f modern research into the theory of classes was initiated in the 1930 s by birkhoff s work 1 on general varieties of algebras and neumann s work 1 on varieties of groups a i mal cev made fundamental contributions to this modern development In his re ports 1 3 of 1963 and 1966 to the fourth all union mathematics con ference and to another international mathematics congress striking the ories of classes of algebraic systems were presented these were later included in his book 5 international interest in the theory of formations of finite groups was aroused and rapidly heated up during this time thanks to the work of gaschiitz 8 in 1963 and the work of carter and hawkes 1 in 1967 the major topics considered were saturated formations fitting classes and schunck classes a class of groups is called a formation if it is closed with respect to homomorphic images and subdirect products a formation is called saturated provided that g e f whenever gjip g e f

practical mathematical cryptography provides a clear and accessible introduction to practical mathematical cryptography cryptography both as a science and as practice lies at the intersection of mathematics and the science of computation and the presentation emphasises the essential mathematical nature of the computations and arguments involved in cryptography cryptography is also a practical science and the book shows how modern cryptography solves important practical problems in the real world developing the theory and practice of cryptography from the basics to secure messaging and voting the presentation provides a unified and consistent treatment of the most important cryptographic topics from the initial design and analysis of basic cryptographic schemes towards applications features builds from theory toward practical applications suitable as the main text for a mathematical cryptography course focus on secure messaging and voting systems

graduate level text offers unified treatment of mathematics applicable to many branches of physics theory of vector spaces analytic function theory theory of integral equations group theory and more many problems bibliography

this book discusses regular powers and symbolic powers of ideals from three perspectives algebra combinatorics and geometry and examines the interactions between them it invites readers to explore the evolution of the set of associated primes of higher and higher powers of an ideal and explains the evolution of ideals associated with combinatorial objects like graphs or hypergraphs in terms of the original combinatorial objects it also addresses similar questions concerning our understanding of the castelnuovo mumford regularity of powers of combinatorially defined ideals in terms of the associated combinatorial data from a more geometric point of view the book considers how the relations between symbolic and regular powers can be interpreted in geometrical

terms other topics covered include aspects of waring type problems symbolic powers of an ideal and their invariants e g the waldschmidt constant the resurgence and the persistence of associated primes

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