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the demand for more computing power has been a constant trend in many fields of science engineering and business now more than ever the need for more and more processing power is emerging in the resolution of complex problems from life sciences financial services drug discovery weather forecasting massive data processing for e science e commerce and e government etc grid and p2p paradigms are based on the premise to deliver greater computing power at less cost thus enabling the solution of such complex problems parallel programming models and applications in grid and p2p systems presents recent advances for grid and p2p paradigms middleware programming models communication libraries as well as their application to the resolution of real life problems by approaching grid and p2p paradigms in an integrated and comprehensive way we believe that this book will serve as a reference for researchers and developers of the grid and p2p computing communities important features of the book include an up to date survey of grid and p2p programming models middleware and communication libraries new approaches for modeling and

performance analysis in grid and p2p systems novel grid and p2p middleware as well as grid and p2p enabled applications for real life problems academics scientists software developers and engineers interested in the grid and p2p paradigms will find the comprehensive coverage of this book useful for their academic research and development activity

a major challenge in grid computing remains the application software development for this new kind of infrastructure grid application programmers have to take into account several complicated aspects distribution of data and computations parallel computations on different sites and processors heterogeneity of the involved computers load balancing etc grid programmers thus demand novel programming methodologies that abstract over such technical details while preserving the beneficial features of modern grid middleware for this purpose the authors introduce higher order components hocs hocs implement generic parallel distributed processing patterns together with the required middleware support and they are offered to users via a high level service interface users only have to provide the application specific pieces of their programs as parameters while low level implementation details such as the transfer of data across the grid are handled by the hocs hocs were developed within the coregrid european network of excellence and have become an optional extension of the popular globus middleware the book provides the reader with hands on experience describing a broad collection of example applications from various fields of science and engineering including biology physics etc the java code for these examples is provided online complementing the book the expected application performance is studied and reported for extensive performance experiments on different testbeds including grids with worldwide distribution the book is targeted at graduate students advanced professionals and researchers in both academia and industry readers can raise their level of knowledge about methodologies for programming contemporary parallel and distributed systems and furthermore they can gain practical experience in using distributed software practical examples show how the complementary online material can easily be adopted in various newprojects

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