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starting with an introduction to the numerous features of mathematica this book continues with more complex material it provides the reader with lots of examples and illustrations of how the benefits of mathematica can be used composed of eleven chapters it includes the

following a chapter on several sorting algorithms functions planar and solid with many interesting examples ordinary differential equations advantages of mathematica dealing with the pi number the power of mathematica working with optimal control problems introduction to mathematica with applications will appeal to researchers professors and students requiring a computational tool

this three volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures it guides readers through solving specific research and analytical problems to obtain useful knowledge and business value from the data each chapter provides an analysis of a specific technical problem followed by the numerical analysis simulation and implementation of the solution to the problem the books constitute the refereed proceedings of the 2017 38th international conference information systems architecture and technology or isat 2017 held on september 17 19 2017 in szklarska poręba poland the conference was organized by the computer science and management systems departments faculty of computer science and management wroclaw university of technology poland the papers have been organized into topical parts part i includes discourses on topics including but not limited to artificial intelligence methods knowledge discovery and data mining big data knowledge discovery and data mining knowledge based management internet of things cloud computing and high performance computing distributed computer systems content delivery networks and service oriented computing part ii addresses topics including but not limited to system modelling for control recognition and decision support mathematical modelling in computer system design service oriented systems and cloud computing and complex process modeling part iii deals with topics including but not limited to modeling of manufacturing processes modeling an investment decision process management of innovation management of organization

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this edition has been revised and updated throughout it includes some new chapters it

features improved treatment of dynamic programming and greedy algorithms as well as a new notion of edge based flow in the material on flow networks book cover

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