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volume is indexed by thomson reuters bci wos this special issue on advanced design and manufacture is a prestigious collection of peer reviewed original contributions reflecting the state of the art emerging technologies recent successes and major research challenges to be found in this subject area the main topics covered include engineering product industrial design manufacture and production sustainable technology eco design eco production renewable energy materials science and engineering materials cad cam cae computer simulation internet technologies artificial intelligence mechanical transmission automation and control engineer management and industrial engineering a comprehensive guide to the subject matter

the book explores interfaces integration components and architectures explains how these elements relate and helps you determine the combinations and approaches that will yield the best results for your organization s needs you get hands on guidance to building systems based upon real world experience and solid network engineering theory without getting bogged down in technological complexity jacket

in the compsac tradition the proceedings spans a broad and diverse range of both technical and non technical topics from basic methodology and software process design to such practical concerns as liability risk and insurance issues

the range of components technology is both wide and diverse but some common understanding is emerging through the ideas of model based development these include the notions of interfaces contracts services connectors and architectures key issues in the application of the technology are becoming clearer including the consistent integration of different views of a component component composition component coordination and transformation for platforms however we still know little about theories that support analysis and synthesis of component based systems the distinct feature of this volume is its focus on mathematical models that identify the core concepts as first class modeling elements and its providing of techniques for integrating and

relating them the volume contains eleven chapters by well established researchers writing from different perspectives each chapter gives explicit definitions of components in terms of a set of key aspects and addresses some of the problems of integration and analysis of various views component specification component composition component coordination refinement and substitution and techniques for solving problems the concepts and techniques are motivated and explained with the help of examples and case studies

this book includes an introduction to some important reliability concepts and a review of terminology the work is divided into three sections modelling evaluation and assurance

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