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simulation using promodel helps students build competence and confidence in the use of simulation through hands on application the text features a blend of theory and practice real life examples case studies and lab exercises using promodel to help students develop their knowledge and abilities part i consists of 14 study chapters the first four chapters introduce simulation its application to system design and improvement and how simulation works chapters 5 through 11 cover the practical and theoretical aspects of conducting a simulation project including applying simulation optimization chapters 12 through 14 cover applications of simulation to manufacturing material handling and service systems part ii features 14 labs that correlate with the 14 chapters in part i each lab guides students through the steps of modeling a situation using promodel and then provides exercises to further develop their skills

this book constitutes the refereed post proceedings of the 13th international conference on ai simulation and planning in high autonomy systems ais 2004 held in jeju island korea in october 2004 the 74 revised full papers presented together with 2 invited keynote papers were carefully reviewed and selected from 170 submissions after the conference the papers went through another round of revision the papers are organized in topical sections on modeling and simulation methodologies intelligent control computer and network security hla and simulator interoperation manufacturing agent based modeling devs modeling and simulation parallel and distributed modeling and simulation mobile computer networks based simulation and natural systems modeling and simulation environments ai and simulation component based modeling watermarking and semantics graphics visualization and animation and business modeling

simulation using promodel covers the art and science of simulation in general and the use of promodel simulation software in particular the text blends theory with practice presenting actual applications in business services and manufacturing this second edition reflects the most recent version of the promodel software available

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