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this book covers computational statistics based approaches for artificial intelligence the aim of this book is to provide comprehensive coverage of the fundamentals through the applications of the different kinds of

mathematical modelling and statistical techniques and describing their applications in different artificial intelligence systems the primary users of this book will include researchers academicians postgraduate students and specialists in the areas of data science mathematical modelling and artificial intelligence it will also serve as a valuable resource for many others in the fields of electrical computer and optical engineering the key features of this book are presents development of several real world problem applications and experimental research in the field of computational statistics and mathematical modelling for artificial intelligence examines the evolution of fundamental research into industrialized research and the transformation of applied investigation into real time applications examines the applications involving analytical and statistical solutions and provides foundational and advanced concepts for beginners and industry professionals provides a dynamic perspective to the concept of computational statistics for analysis of data and applications in intelligent systems with an objective of ensuring sustainability issues for ease of different stakeholders in various fields integrates recent methodologies and challenges by employing mathematical modeling and statistical techniques for artificial intelligence

the mos metal oxide semiconductor transistor is the most important building block of modern silicon integrated circuits this book fills an important gap in the literature by presenting a unified treatment of the operation and modeling of the mos transistor that is complemented with extensive intuitive discussions the mos transistor is the dominant vlsi very large scale integration device and understanding of this device is mandatory for those people planning a career in device physics and modeling as well as in circuit design especially important for university courses there is a logical systematic and progressive description that starts with semiconductor fundamentals and builds up to a comprehensive understanding of the basics of mos transistors for practicing professionals there are details of nuances observed in mos transistor behavior and various approaches to modeling these are presented detailed derivations are given for modeling dc currents charges for large signal operation small signal operation at low frequencies and high frequencies and noise

this undergraduate text is designed for those who will use finite elements in their daily work it emphasizes the behaviour of finite elements and describes how to use the methods successfully while including enough theory to explain why elements behave as they do

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