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complex systems lie at the heart of a variety of large scale phenomena of great significance global warming ice ages water poverty pandemics and this text uses these case studies as motivations and contexts to explore complex systems and related topics of nonlinear dynamics and power law statistics although detailed mathematical descriptions of these topics can be challenging the consequences of a system being nonlinear power law or complex are in fact quite accessible this book blends a tutorial approach to the mathematical aspects of complex systems together with a complementary narrative on the global ecological societal implications of such systems nearly all engineering undergraduate courses focus on mathematics and systems which are small scale linear and gaussian unfortunately there is not a single large scale ecological or social phenomenon that is scalar linear and gaussian this book offers insights to better understand the large scale problems facing the world and to realize that these cannot be solved by a single narrow academic field or perspective instead the book seeks to emphasize understanding concepts and ideas in a way that is mathematically rigorous so that the concepts do not feel vague but not so technical that the mathematics get in the way the book is intended for students in technical domains such as engineering computer science physics mathematics and environmental studies this second edition adds nine new examples over 30 additional problems 50 additional figures and three new chapters offering a detailed study of system decoupling extensive solutions to chapter problems and a timely discussion on the complex systems challenges associated with covid 19 and pandemics in general

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david poole s innovative book emphasizes vectors and geometric intuition from the start and better prepares students to make the transition from the computational aspects of the course to the theoretical poole covers vectors and vector geometry first to enable students to visualize the mathematics while they are doing matrix operations with a concrete understanding of vector geometry students are able to visualize and understand the meaning of the calculations that they will encounter by seeing the mathematics and understanding the underlying geometry students develop mathematical maturity and can think abstractly when they reach vector spaces throughout the text poole s direct conversational writing style connects with students and an abundant selection of applications from a broad range of disciplines clearly demonstrates the relevance of linear algebra

introduction math fundamentals numerical methods dynamics optimal estimation state estimation control perception localization and mapping motion planning

this book guides readers from the foundations of quantum mechanics through advanced quantum algorithms such as shor s and grover s and state of the art machine learning methods by illustrating how these concepts apply to everyday engineering challenges ranging from complex optimization and cryptography to high fidelity simulations the authors equip readers with the tools they need to develop

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