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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

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this textbook is intended as a guide for undergraduate and graduate students in engineering science and technology courses chapters of the book cover the numerical concepts of errors approximations differential equations and partial differential equations the simple presentation of numerical concepts and illustrative examples helps students and general readers to understand the topics covered in the text

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

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

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