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Modeling The Dynamics of Climate and Conflict

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and input/output models. In the remainder of this section we provide an overview of some of the key concepts in modeling. The mathematical details introduced here are explored more fully in the remainder of the chapter. The Heritage of Mechanics The study of dynamics originated in the attempts to describe planetary motion.

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which discusses the dynamics of user (traffic source) and network adaptations, and control theory texts and notes (e.g., [20,16]). The exposition here attempts to tie these various mathematical models and techniques through simple running examples and illustrations, modeling the dynamics of both flow control and routing.

Optimizing and Modeling Dynamics in Networks

1 Modeling the Dynamics of Network Technology Adoption and the Role of Converters Soumya Sen, Student Member, IEEE Youngmi Jin, Member, IEEE Roch GueÅrin, Fellow, ACM; Fellow IEEE and Kartik Hosanagar Abstractâ€”New network technologies constantly seek to dis- place incumbents. Their success depends on technological supe-

Modeling the Dynamics of Network Technology Adoption and

Modeling the Dynamics of Glacial Cycles Hans Engler^{1;2}, Hans G. Kaper^{1;2}, Tasso J. Kaper³, Theodore Vo³ 1 Department of Mathematics and Statistics, Georgetown University, Washington, DC 2 Mathematics and Climate Research Network (MCRN) 3 Department of Mathematics and Statistics, Boston University, Boston, MA Abstract This article is concerned with the dynamics of glacial cycles observed in the

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Flying Spiders: Simulating and Modeling the Dynamics of Ballooning 181 Fig. 1 Tiptoe behavior in which a spider stands on tarsi, raises the abdomen, and releases a dragline (indicated by arrow) in order to initiate ballooning.

Flying Spiders: Simulating and Modeling the Dynamics of

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