

Small Avalanches And Other Stories

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The Alpine Journal
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Report on the Forest Conditions of the Rocky Mountains, and Other Papers ...
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Natural Hazards
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United States. Forest Service
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in an instant an avalanche can turn a picture perfect winter scene into a deadly disaster huge sheets of snow and ice can race down a mountain at 50 miles 81 kilometers per hour or faster avalanches can toss cars snap trees and crush buildings in their path sometimes burying an entire village in tightly packed snow with dramatic images and first hand survivor stories plus the latest facts and figures this book shows you avalanche disasters up close

the brain is composed of many interconnected neurons that form a complex system from which thought behavior and creativity emerge through self organization by studying the dynamics of this network some basic motifs can be identified recent technological and computational advances have led to rapidly accumulating empirical evidence that spontaneous cortical activity exhibits scale free and critical behavior multiple experiments have identified neural processes without a preferred timescale in the avalanche like spatial propagation of activity in cortical slices and in self similar time series of local field potentials even at the largest scale scale free behavior can be observed by looking at the power distributions of brain rhythms as observed by neuroimaging these findings may indicate that brain dynamics are always close to critical states a fact with important consequences for how brain accomplishes information transfer and processing capitalizing on analogies between the collective behavior of interacting particles in complex physical systems and interacting neurons in the cortex concepts from non equilibrium thermodynamics can help to understand how dynamics are organized in particular the concepts of phase transitions and self organized criticality can be used to shed new light on how to interpret collective neuronal dynamics despite converging support for scale free and critical dynamics in cortical activity the implications for accompanying cognitive functions are still largely unclear this research topic aims to facilitate the discussion between scientists from different backgrounds ranging from theoretical physics to computational neuroscience brain imaging and neurophysiology by stimulating interactions with the readers of frontiers in physiology we hope to advance our understanding of the role of scale freeness and criticality in organizing brain dynamics what do these new perspectives tell us about the brain and to what extent are they relevant for our cognitive functioning for this research topic we therefore solicit reviews original research articles opinion and method papers which address the principles that organize the dynamics of cortical activity while focusing on work in the neurosciences this research topic also welcomes theoretical contributions from physics or computational approaches

avalanche prediction methods explores the complex science of forecasting avalanches a critical skill for mountain safety and risk management the book examines how predicting

these events has evolved from relying on anecdotal evidence to using sophisticated computer models accurate avalanche forecasting depends on understanding intricate factors such as snowpack structure weather patterns and terrain features this book guides readers through the fundamentals of avalanche formation detailing snowpack metamorphism and stability it progresses into various prediction methods including statistical approaches and snowpack modeling while also exploring case studies of significant avalanche events risk management strategies based on avalanche forecasting are also covered emphasizing the practical application of these methods in diverse mountain environments the book uniquely emphasizes integrating diverse data and considering uncertainty in avalanche forecasting while avalanche prediction remains an inexact science improving our ability to assess and manage avalanche risk is possible through a comprehensive understanding of available techniques and data the book adopts a comprehensive analytical approach balancing a rigorous scientific foundation with accessibility for students and practitioners in earth sciences and related fields

avalanche trigger points explores the intricate factors that lead to avalanches emphasizing that these events aren't random but result from specific triggers acting on unstable snowpacks it investigates how subtle shifts in snow layering combined with terrain features and weather patterns can create deadly conditions the book uniquely focuses on these immediate triggers offering a nuanced understanding of avalanche risk readers will gain insight into how the book progresses from fundamental snow science principles to detailed analyses of snow layering terrain influence and weather's role for example it explains how slope angle and aspect affect snowpack stability or how rapid temperature increases can act as a natural trigger by examining past avalanches and drawing on data from global research institutions the book supports its arguments with empirical evidence ultimately avalanche trigger points aims to improve avalanche forecasting risk assessment and safety practices this book provides actionable advice for professionals and recreationalists alike making it invaluable for anyone navigating avalanche terrain and aiming to understand mountain ecosystems and snow science

the new revised fifth edition of natural hazards remains the go-to introductory level survey intended for university and college courses that are concerned with earth processes that have direct and often sudden and violent impacts on human society the text integrates principles of geology hydrology meteorology climatology oceanography soil science ecology and solar system astronomy the textbook explains the earth processes that drive hazardous events in an understandable way illustrates how these processes interact with our civilization and describes how we can better adjust to their effects written by leading scholars in the area the new edition of this book takes

advantage of the greatly expanding amount of information regarding natural hazards disasters and catastrophes the text is designed for learning with chapters broken into small consumable chunks of content for students each chapter opens with a list of learning objectives and ends with revision as well as high level critical thinking questions a concepts in review feature provides an innovative end of chapter section that breaks down the chapter content by parts reviewing the learning objectives summary points important visuals and key terms new case studies of hazardous events have been integrated into the text and students are invited to actively apply their understanding of the five fundamental concepts that serve as a conceptual framework for the text figures illustrations and photos have been updated throughout the book is designed for a course in natural hazards for nonscience majors and a primary goal of the text is to assist instructors in guiding students who may have little background in science to understand physical earth processes as natural hazards and their consequences to society

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