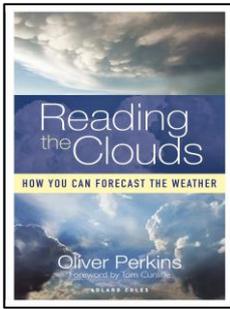


## Reading Clouds



v měkké vazbě, 128 stran  
vyd. Adlard Coles Nautical,  
VII/2018  
ISBN 9781472960184

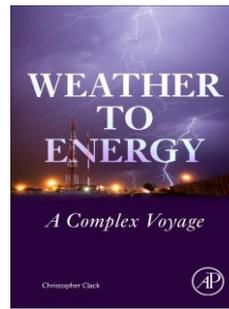
katalog.cena cca 340 Kč vč.DPH  
v této nabídce **260 Kč** vč.DPH

Wouldn't it be useful to be able to accurately predict the weather simply by reading the clouds? Well, with this book, you can! TV forecasts, online predictions and smartphone apps are all based on the same data - a number-crunched overview of how air pressure and temperature affect the weather across a large geographical area. But to get an idea of how the weather will develop for the precise spot where you're standing (or walking, sailing, golfing, fishing, etc) you don't need any equipment or a wifi connection - you just need to look up. This book will give you a broad understanding of why the clouds are symptoms of weather patterns, not causes.

By reading these signs in the sky and referring to the explanatory colour photographs, you will discover exactly what those signs mean. An at-a-glance guide to the clouds for anyone anywhere in the world, on land or at sea, this book will enable you to predict the weather by recognising cloud types, shapes, colour and behaviour. It will be an invaluable companion for anyone who enjoys outdoor activities.

With a Foreword by Tom Cunliffe. 'Well researched - practical information in an easy to assimilate form' - Professor Richard Collier, former President of the Royal Meteorological Society 'So good that my Yachtmaster candidates would do well to read it. I learned something from this book.'

## Weather to Energy



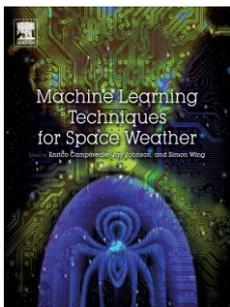
v měkké vazbě, 352 stran  
vyd. Academic Press, X/2019  
ISBN 9780128018873

katalog.cena cca 2.640 Kč vč.DPH  
v této nabídce **2.160 Kč** vč.DPH

Weather to Energy: A Complex Voyage synthesizes several vertically integrated disciplines, allowing new researchers to become involved in renewable energy studies. The book covers the basics needed to jump into the field, including sections on electrical load data and weather model data. The research on optimizing weather-driven renewable energies requires working knowledge of certain disciplines, such as economics, mathematics, atmospheric physics, statistics, fluid dynamics, power modeling and engineering.

This book's aim is to inspire new research in renewable energy for interested scientists who may not have the required skills.

## Machine Learning Techniques for Space Weather



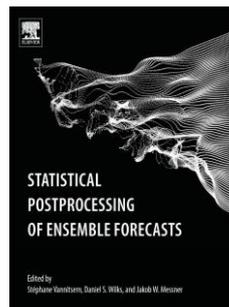
v měkké vazbě, 454 stran  
vyd. Elsevier, V/2018  
ISBN 9780128117880

katalog.cena cca 3.600 Kč vč.DPH  
v této nabídce **2.960 Kč** vč.DPH

Machine Learning Techniques for Space Weather provides a thorough and accessible presentation of machine learning techniques that can be employed by space weather professionals. Additionally, it presents an overview of real-world applications in space science to the machine learning community, offering a bridge between the fields. As this volume demonstrates, real advances in space weather can be gained using nontraditional approaches that take into account nonlinear and complex dynamics, including information theory, nonlinear auto-regression models, neural networks and clustering algorithms.

Offering practical techniques for translating the huge amount of information hidden in data into useful knowledge that allows for better prediction, this book is a unique and important resource for space physicists, space weather professionals and computer scientists in related fields.

## Statistical Postprocessing of Ensemble Forecasts



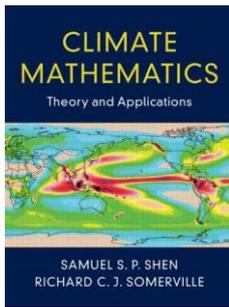
v měkké vazbě, 362 stran  
vyd. Elsevier, V/2018  
ISBN 9780128123720

katalog.cena cca 3.340 Kč vč.DPH  
v této nabídce **2.740 Kč** vč.DPH

Statistical Postprocessing of Ensemble Forecasts brings together chapters contributed by international subject-matter experts describing the current state of the art in the statistical postprocessing of ensemble forecasts. The book illustrates the use of these methods in several important applications including weather, hydrological and climate forecasts, and renewable energy forecasting. After an introductory section on ensemble forecasts and prediction systems, the second section of the book is devoted to exposition of the methods available for statistical postprocessing of ensemble forecasts: univariate and multivariate ensemble postprocessing are first reviewed by Wilks (Chapters 3), then Schefzik and Moeller (Chapter 4), and the more specialized perspective necessary for postprocessing forecasts for extremes is presented by Friederichs, Wahl, and Buschow (Chapter 5).

The second section concludes with a discussion of forecast verification methods devised specifically for evaluation of ensemble forecasts (Chapter 6 by Thorarindottir and Schuhen). The third section of this book is devoted to applications of ensemble postprocessing. Practical aspects of ensemble postprocessing are first detailed in Chapter 7 (Hamill), including an extended and illustrative case study.

## Climate Mathematics



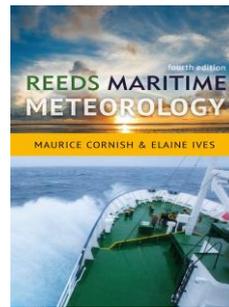
v pevné vazbě, 456 stran  
vyd. Cambridge University Press,  
IX/2019  
ISBN 9781108476874

katalog.cena cca 1.840 Kč vč.DPH  
v této nabídce **1.500 Kč** vč.DPH

This unique text provides a thorough, yet accessible, grounding in the mathematics, statistics, and programming that students need to master for coursework and research in climate science, meteorology, and oceanography. Assuming only high school mathematics, it presents carefully selected concepts and techniques in linear algebra, statistics, computing, calculus and differential equations within the context of real climate science examples. Computational techniques are integrated to demonstrate how to visualize, analyze, and apply climate data, with R code featured in the book and both R and Python code available online.

Exercises are provided at the end of each chapter with selected solutions available to students to aid self-study and further solutions provided online for instructors only. Additional online supplements to aid classroom teaching include datasets, images, and animations. Guidance is provided on how the book can support a variety of courses at different levels, making it a highly flexible text for undergraduate and graduate students, as well as researchers and professional climate scientists who need refresh or modernize their quantitative skills.

## Reeds Maritime Meteorology

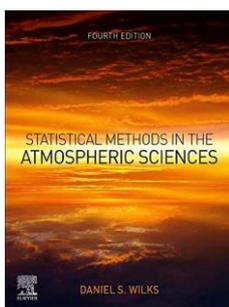


v měkké vazbě, 256 stran  
vyd. Reeds, 4.vydání, VI/2019  
ISBN 9781472964151

katalog.cena cca 1.000 Kč vč.DPH  
v této nabídce **800 Kč** vč.DPH

Written primarily for serving and trainee deck officers, those studying for certificates of competency in merchant shipping and fishermen, Reeds Maritime Meteorology analyses the elements and forces which contribute to maritime meteorology and the principles which govern them. Updated to include the latest developments in the use of satellite technology in forecasting, Navtext and the ramifications of GMDSS, the book examines: \* cloud formation and development\* precipitation and thunderstorms\* atmospheric pressure and wind\* ocean currents and swell \* tropical revolving storms \* the development and distribution of sea ice \* weather routing \* passage planning \* the management and care of cargo in heavy weather This revised edition covers significant developments in the variety of forecasts available for the seafarer, coverage of global warming and weather routing options, as well as updates throughout in line with technological advancements and research discoveries, and updates to the exam questions at the end of each chapter.

## Statistical Methods in Atmospheric Sciences

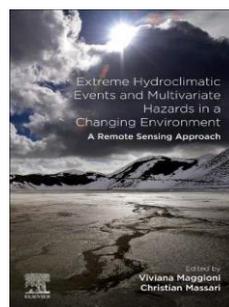


v měkké vazbě, 850 stran  
vyd. Elsevier, 4.vydání, IX/2019  
ISBN 9780128158234

katalog.cena cca 3.200 Kč vč.DPH  
v této nabídce **2.630 Kč** vč.DPH

Statistical Methods in the Atmospheric Sciences, Fourth Edition continues the tradition of trying to meet the needs of students, researchers and operational practitioners. This updated edition not only includes expanded sections built upon the strengths of the prior edition, but also provides new content where there have been advances in the field, including Bayesian analysis, forecast verification and a new chapter dedicated to ensemble forecasting.

## Extreme Hydroclimatic Events and Multivariate Hazards in Changing Environment



v měkké vazbě, 450 stran  
vyd. Elsevier, VI/2019  
ISBN 9780128148990

katalog.cena cca 4.500 Kč vč.DPH  
v této nabídce **3.690 Kč** vč.DPH

Extreme Hydroclimatic Events and Multivariate Hazards in a Changing Environment: A Remote Sensing Approach reviews multivariate hazards in a non-stationary environment, covering both short and long-term predictions from earth observations, along with long-term climate dynamics and models. The book provides a detailed overview of remotely sensed observations, current and future satellite missions useful for hydrologic studies and water resources engineering, and a review of hydroclimatic hazards. Given these tools, readers can improve their abilities to monitor, model and predict these extremes with remote sensing.

In addition, the book covers multivariate hazards, like landslides, in case studies that analyze the combination of natural hazards and their impact on the natural and built environment. Finally, it ties hydroclimatic hazards into the Sendai Framework, providing another set of tools for reducing disaster impacts.