Seinfeld And Pandis Second Edition

Sustainable Energy, second edition Mastering pandas Pandas 1.x Cookbook Learning pandas Fluid Mechanics of Environmental Interfaces, Second Edition Hands-On Data Analysis with Pandas Atmospheric Chemistry and Physics Sex Tips for Pandas The Pandas Workshop Overcoming Obsessive Compulsive Disorder, 2nd Edition Pandas and People PANDAS and PANS in School Settings Pandas Brain Teasers The Applied TensorFlow and Keras Workshop Learning Pandas - Second Edition Case Files Emergency Medicine, Second Edition Python Data Analysis Hands-On Data Analysis with Pandas - Second Edition Red Panda AIIMS General Knowledge with Logical Thinking with Monthly Current Affairs Update ebook - 2nd Edition Guide to Indian Railways (RRB) Assistant Loco Pilot Exam 2018 Stage I & II - 2nd Edition Python for Data Analysis Pandas 1. X Cookbook Information Resources in Toxicology Mastering Pandas Python Data Analytics The American Biology Teacher The Athenaeum Aerosols Handbook Yoga and Āyurveda Scientific Computing with Python - Second Edition Comprehensive Pediatric Hospital Medicine, Second Edition Pandas for Everyone Movement Disorders: Neurologic Principles & Practice, Second Edition Subject Area Catalog of Educational Films Listing 16 Mm Films at Primary-intermediate Level, 1980 Pandas Cookbook Matplotlib for Python Developers General Catalogue of Printed Books Catalogue of Printed Books In the Light of Evolution

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Atmospheric Chemistry and Physics Apr 27 2022 Expanded and updated with new findings and new features New chapter on Global Climate providing a self-contained treatment of climate forcing, feedbacks, and climate sensitivity New chapter on Atmospheric Organic Aerosols and new treatment of the statistical method of Positive Matrix Factorization Updated treatments of physical meteorology, atmospheric nucleation, aerosol-cloud relationships, chemistry of biogenic hydrocarbons Each topic developed from the fundamental science to the point of application to real-world problems New problems at an introductory level to aid in classroom teaching

Mastering Pandas Oct 10 2020 Perform advanced data manipulation tasks using pandas and become an expert data analyst. Key Features Manipulate and analyze your data expertly using the power of pandas Work with missing data and time series data and become a true pandas expert Includes expert tips and techniques on making your data analysis tasks easier Book Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data. This book presents useful data manipulation techniques in pandas to perform complex data analysis in various domains. An update to our highly successful previous edition with new features, examples, updated code, and more, this book is an in-depth guide to get the most out of pandas for data analysis. Designed for both intermediate users as well as seasoned practitioners, you will learn advanced data manipulation techniques, such as multi-indexing, modifying data structures, and sampling your data, which allow for powerful analysis and help you gain accurate insights from it. With the help of this book, you will apply pandas to different domains, such as Bayesian statistics, predictive analytics, and time series analysis using an example-based approach. And not just that; you will also learn how to prepare powerful, interactive business reports in pandas using the Jupyter notebook. By the end of this book, you will learn how to perform efficient data analysis using pandas on complex data, and become an expert data analyst or data scientist in the process. What you will learn Speed up your data analysis by importing data into pandas Keep relevant data points by selecting subsets of your data Create a high-quality dataset by cleaning data and fixing missing values Compute actionable analytics with grouping and aggregation in pandas Master time series data analysis in pandas Make powerful reports in pandas using Jupyter notebooks Who this book is for This book is for data scientists, analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas. Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book.

Pandas 1.x Cookbook Sep 01 2022 Use the power of pandas to solve most complex scientific computing problems with ease. Revised for pandas 1.x. Key Features This is the first book on pandas 1.x Practical, easy to implement recipes for quick solutions to common problems in data using pandas Master the fundamentals of pandas to quickly begin exploring any dataset Book Description The pandas library is massive, and it's common for frequent users to be unaware of many of its more impressive features. The official pandas documentation, while thorough, does not contain many useful examples of how to piece together multiple commands as one would do during an actual analysis. This book guides you, as if you were looking over the shoulder of an expert, through situations that you are highly likely to encounter. This new updated and revised edition provides you with unique, idiomatic, and fun recipes for both fundamental and advanced data manipulation tasks with pandas. Some recipes focus on achieving a deeper understanding of basic principles, or comparing and contrasting two similar operations. Other recipes will dive deep into a particular dataset, uncovering new and unexpected insights along the way. Many advanced recipes combine several different features across the pandas library to generate results. What you will learn Master data exploration in pandas through dozens of practice problems Group, aggregate, transform, reshape, and filter data Merge data from different sources through pandas SQL-like operations Create visualizations via pandas hooks to matplotlib and seaborn Use pandas, time series functionality to perform powerful analyses Import, clean, and prepare real-world datasets for machine learning Create workflows for processing big data that doesn't fit in memory Who this book is for This book is for Python developers, data scientists, engineers, and analysts. Pandas is the ideal tool for manipulating structured data with Python and this book provides ample instruction and examples. Not only does it cover the basics required to be proficient, but it goes into the details of idiomatic pandas.

Fluid Mechanics of Environmental Interfaces, Second Edition Jun 29 2022 Environmental Fluid Mechanics (EFM) studies the motion of air and water at several different scales, the fate and transport of species carried along by these fluids, and the interactions among those flows and geological, biological, and engineered systems. EFM emerged some decades ago as a response to the need for tools to study problems of flow and transport in rivers, estuaries, lakes, groundwater and the atmosphere; it is a topic of increasing importance for decision makers, engineers, and researchers alike. The second edition of the successful textbook "Fluid Mechanics of Environmental Interfaces" is still aimed at providing a comprehensive overview of fluid mechanical processes occurring at the different interfaces existing in the realm of EFM, such as the air-water interface, the air-land interface, the water-sediment interface, the surface water-groundwater interface, the water-vegetation interface, and the water-biological systems interface. Across any of these interfaces mass, momentum, and heat are exchanged through different fluid mechanical processes over various spatial and temporal scales. In this second edition, the unique feature of this book, considering all the topics from the point of view of the concept of environmental interface, was maintained while the chapters were updated and five new chapters have been added to significantly enlarge the coverage of the subject area. The book starts with a chapter introducing the concept of EFM and its scope, scales, processes and systems. Then, the book is structured in three parts with fifteen chapters. Part one, which is composed of four chapters, covers the processes occurring at the interfaces between the atmosphere and the surface of the land and the seas, including the transport of dust and the dispersion of passive substances within the atmosphere. Part two deals in five chapters with the fluid mechanics at the air-water interface at small scales and sediment-water interface, including the advective diffusion of air bubbles, the hyporheic exchange and the tidal bores. Finally, part three discusses in six chapters the processes at the interfaces between fluids and biotic systems, such as transport processes in the soil-vegetation-lower atmosphere system, turbulence and wind above and within the forest canopy, flow and mass transport in vegetated open channels, transport processes to and from benthic plants and animals and coupling between interacting environmental interfaces. Each chapter has an educational part, which is structured in four sections: a synopsis of the chapter, a list of keywords that the reader should have encountered in the chapter, a list of questions and a list of unsolved problems related to the topics covered by the chapter. The book will be of interest to graduate students and researchers in environmental sciences, civil engineering and environmental engineering, (geo)physics, atmospheric science, meteorology, limnology, oceanography, and applied mathematics.

Movement Disorders: Neurologic Principles & Practice, Second Edition Jan 01 2020 The leading clinical reference on the diagnosis and treatment of movement disorders! A Doody's Core Title! Praise for the First Edition:--"This instructive text will serve as a reference for specialists in the care of patients with these disorders and for general neurologists and others to whom a patient with Stiff-Person syndrome or Wilson's disease is a rarity. The emphasis on the neuroscientific basis for the disorders presented and their study and treatment will also make the book academically useful....This excellent and timely book will provide a valuable resource for those involved in the academic and clinical aspects of movement disorders. 5 STARS!"--Doody's Review Service Featuring contributions from more than 50 leaders in the field, the Second Edition has been revised to incorporate the latest genetic information and is the most current reference available.

The Pandas Workshop Feb 23 2022 Learn the fundamentals of data science with Python by analyzing real datasets and solving problems using pandas Key Features • Learn how to apply data retrieval, transformation, visualization, and modeling techniques using pandas • Become highly efficient in unlocking deeper insights from your data, including databases, web data, and more • Build your experience and confidence with hands-on exercises and activities Book Description The Pandas Workshop will teach you how to be more productive with data and generate real business insights to inform your decision-making. You will be guided through real-world data science problems and shown how to apply key techniques in the context of realistic examples and exercises. Engaging activities will then challenge you to apply your new skills in a way that prepares you for real data science projects. You'll see how experienced data scientists tackle a wide range of problems using data analysis with pandas. Unlike other Python books, which focus on theory and spend too long on dry, technical explanations, this workshop is designed to quickly get you to write clean code and build your understanding through hands-on practice. As you work through this Python pandas book, you'll tackle various real-world scenarios, such as using an air quality dataset to understand the pattern of nitrogen dioxide emissions in a city, as well as analyzing transportation data to improve bus transportation services. By the end of this data analytics book, you'll have the knowledge, skills, and confidence you need to solve your own challenging data science problems with pandas. What you will learn • Access and load data from different sources using pandas • Work with a range of data types and structures to understand your data • Perform data transformation to prepare it for analysis • Use Matplotlib for data visualization to create a variety of plots • Create data models to find relationships and test hypotheses • Manipulate time-series data to perform date-time calculations • Optimize your code to ensure more efficient business data analysis Who this book is for This data analysis book is for anyone with prior experience working with the Python programming language who wants to learn the fundamentals of data analysis with pandas. Previous knowledge of pandas is not necessary.

Pandas for Everyone Jan 31 2020 The Hands-On, Example-Rich Introduction to Pandas Data Analysis in Python Today, analysts must manage data characterized by extraordinary variety, velocity, and volume. Using the open source Pandas library, you can use Python to rapidly automate and perform virtually any data analysis task, no matter how large or complex. Pandas can help you ensure the veracity of your data, visualize it for effective decision-making, and reliably reproduce analyses across multiple datasets. Pandas for Everyone brings together practical knowledge and insight for solving real problems with Pandas, even if you're new to Python data analysis. Daniel Y. Chen introduces key concepts through simple but practical examples, incrementally building on them to solve more difficult, real-world problems. Chen gives you a jumpstart on using Pandas with a realistic dataset and covers combining datasets, handling missing data, and structuring datasets for easier analysis and visualization. He demonstrates powerful data cleaning techniques, from basic string manipulation to applying functions simultaneously across dataframes. Once your data is ready, Chen guides you through fitting models for prediction, clustering, inference, and exploration. He provides tips on performance and scalability, and introduces you to the wider Python data analysis ecosystem. Work with DataFrames and Series, and import or export dataCreate plots with matplotlib, seaborn, and pandas Combine datasets and handle missing data Reshape, tidy, and clean datasets so they're easier to work with Convert data types and manipulate text strings Apply functions to scale data manipulations Aggregate, transform, and filter large datasets with groupby Leverage Pandas' advanced date and time capabilities Fit linear models using statsmodels and scikit-learn libraries Use generalized linear modeling to fit models with different response variables Compare multiple models to select the best Regularize to overcome overfitting and improve performance Use clustering in unsupervised machine learning

Pandas 1. X Cookbook Dec 12 2020 Use the power of pandas to solve most complex scientific computing problems with ease. Revised for pandas 1.x. Key Features This is the first book on pandas 1.x Practical, easy to implement recipes for quick solutions to common problems in data using pandas Master the fundamentals of pandas to quickly begin exploring any dataset Book Description The pandas library is massive, and it's common for frequent users to be unaware of many of its more impressive features. The official pandas documentation, while thorough, does not contain many useful examples of how to piece together multiple commands as one would do during an actual analysis. This book guides you, as if you were looking over the shoulder of an expert, through situations that you are highly likely to encounter. This new updated and revised edition provides you with unique, idiomatic, and fun recipes for both fundamental and advanced data manipulation tasks with pandas. Some recipes focus on achieving a deeper understanding of basic principles, or comparing and contrasting two similar operations. Other recipes will dive deep into a particular dataset, uncovering new and unexpected insights along the way. Many advanced recipes combine several different features across the pandas library to generate results. What you will learn Master data exploration in pandas through dozens of practice problems Group, aggregate, transform, reshape, and filter data Merge data from different sources through pandas SQL-like operations Create visualizations via pandas hooks to matplotlib and seaborn Use pandas, time series functionality to perform powerful analyses Import, clean, and prepare real-world datasets for machine learning Create workflows for processing big data that doesn't fit in memory Who this book is for This book is for Python developers, data scientists, engineers, and analysts. Pandas is the ideal tool for manipulating structured data with Python and this book provides ample instruction and examples. Not only does it cover the basics required to be proficient, but it goes into the details of idiomatic pandas.

PANDAS and PANS in School Settings Nov 22 2021 PANDAS (Pediatric Autoimmune Neuropsychiatric Disorders Associated with Strep) and PANS (Pediatric Acute-Onset Neuropsychiatric Syndrome) occur when an abnormal immune response produces brain inflammation, leading to unusual psychological symptoms in children. Symptoms can include OCD, tics, ADHD, anxiety disorders, sensory issues and marked personality changes. This practical handbook explains how educators can distinguish between these symptoms and pre-existing conditions, and offers strategies for supporting students with PANDAS and PANS in school settings. Contributions from experts provide educators with the understanding needed to be able to collaboratively identify PANDAS and PANS, and carry out effective interventions. As the rate of incidence of PANDAS and PANS increases, this book will be an essential resource for school staff in getting to grips with these complex disorders and overcoming the challenges they present.

Overcoming Obsessive Compulsive Disorder, 2nd Edition Jan 25 2022 Break free from unhelpful rituals and take control of your life 'Clear, practical, focused and useful... extremely helpful both for those who suffer from obsessive compulsive disorder and those who care for them' Paul Salkovkis, University of Bath Are you plagued by a recurring thought or idea that just won't go away, or feel the need to wash your hands repeatedly, to hoard things, or to repeatedly check all appliances in the house have been turned off before you leave? These are common symptoms of obsessive compulsive disorder (OCD), a condition that causes distress to hundreds of thousands of people. Using methods based on real clinical practice and proven cognitive behavioural therapy (CBT) techniques, this revised and updated edition teaches you: · How to face fears and avoided situations · How to control disturbing thoughts, images and urges · Strategies to break free from the destructive cycle of obsessive behaviour Overcoming self-help guides use clinically proven techniques to treat long-standing and disabling conditions, both psychological and physical. READING WELL This book is recommended by the national Reading Well Books on Prescription scheme for England delivered by The Reading Agency and the Society of Chief Librarians with funding from Arts Council England and Wellcome. www.reading-well.org.uk Series editor: Professor Peter Cooper

Hands-On Data Analysis with Pandas - Second Edition May 17 2021 Get to grips with pandas - a fast, versatile, and high-performance Python library for data discovery, data manipulation, data preparation, and handling data for analytical tasks Key Features: Perform efficient data analysis and manipulation tasks using pandas 1.x Apply pandas to different real-world domains with the help of step-by-step examples Become well-versed in using pandas as an effective data exploration tool Book Description: Data analysis has become an essential skill in a variety of domains where knowing how to work with data and extract insights can generate significant value. Hands-On Data Analysis with Pandas will show you how to analyze your data, get started with machine learning, and work effectively with the Python libraries often used for data science, such as pandas, NumPy, matplotlib, seaborn, and scikit-learn. Using real-world datasets, you will learn how to use the pandas library to perform data wrangling to reshape, clean, and aggregate your data. Then, you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns. In the concluding chapters, you will explore some applications of anomaly detection, regression, clustering, and classification using scikit-learn to make predictions based on past data. This updated edition will equip you with the skills you need to use pandas 1.x to efficiently perform various data manipulation tasks, reliably reproduce analyses, and visualize your data for effective decision making-valuable knowledge that can be applied across multiple domains. What You Will Learn: Understand how data analysts and scientists gather and analyze data Perform data analysis and data wrangling using Python Combine, group, and aggregate data from multiple sources Create data visualizations with pandas, matplotlib, and seaborn Apply machine learning algorithms to identify patterns and make predictions Use Python data science libraries to analyze real-world datasets Solve common data representation and analysis problems using pandas Build Python scripts, modules, and packages for reusable analysis code Who this book is for: This book is for data science beginners, data analysts, and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets. You'll also find this book useful if you are a data scientist looking to implement pandas in your machine learning workflow. Working knowledge of the Python programming language will assist with understanding the key concepts covered in this book; however, a Python crash-course tutorial is provided in the code bundle for anyone who needs a refresher.

Sex Tips for Pandas Mar 27 2022 Special edition of this popular paperback with bonus photo section and a brand new final chapter which brings the story up to date. When scriptwriters Georgina Sowerby and Brian Luff began recording podcasts in their spare bedroom in 2005, they had no way of knowing what an adventure they were embarking upon. Sex Tips for Pandas is the story of a couple from London whose podcasts touched the hearts of thousands and propelled them on a bizarre and comical trip around the world. It's also an intimate, often confessional book about a relationship, and a tantalizing glimpse at the none-too-glamorous side of the entertainment industry. For Brian and Georgina podcasting was an obsessive shared interest, a form of escapism from the real world which became the very glue that held their often difficult and complicated relationship together. Sprinkled throughout with showbiz anecdotes and bitchy behind-the-scenes gossip, Sex Tips For Pandas will amuse you, entertain you and ultimately inspire you.

Comprehensive Pediatric Hospital Medicine, Second Edition Mar 03 2020 The gold-standard text in pediatric hospital medicine – updated and streamlined for today's practice Hailed by reviewers and clinicians alike, Comprehensive Pediatric Hospital Medicine has become the specialty's cornerstone text. Edited by five leading figures in pediatric hospital medicine, this acclaimed resource brings you the most up-to-date, evidence-based approaches to inpatient pediatric care from experts in their fields. Comprehensive Pediatric Hospital Medicine, Second Edition opens with an informative introductory section that defines hospital medicine and addresses general issues of hospitalist practice and administration. This includes important topics such as medical legal issues, communications, electronic health records, palliative care, ethical issues, careers, professional organizations, and more. The book then moves into commonly presenting signs and symptoms. This is followed by the largest section, a breakdown of diseases by system. The text concludes with a procedures section that provides hard-to-find instruction on the procedures most commonly performed on children in a hospital setting. The Disease chapters are templated to include Background, Pathophysiology, Differential Diagnosis, Diagnostic Evaluation, Management, Special Considerations, Key Points, References, algorithms, and more. The Procedures chapters include Indications, Contraindications, Anatomy, Equipment, Procedure, Preparation, Technique, Complications, and Special Considerations. If you're in need of an up-to-date, comprehensive, and authoritative text that spans the emerging field of pediatric hospital medicine, your search ends here.

Learning pandas Jul 31 2022 Get to grips with pandas—a versatile and high-performance Python library for data manipulation, analysis, and discovery About This Book Get comfortable using pandas and Python as an effective data exploration and analysis tool Explore pandas through a framework of data analysis, with an explanation of how pandas is well suited for the various stages in a data analysis process A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandas Who This Book Is For This book is ideal for data scientists, data analysts, Python programmers who want to plunge into data analysis using pandas, and anyone with a curiosity about analyzing data. Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required. Prior exposure to pandas is also not required. What You Will Learn Understand how data analysts and scientists think about of the processes of gathering and understanding data Learn how pandas can be used to support the end-to-end process of data analysis Use pandas Series and DataFrame objects to represent single and multivariate data Slicing and dicing data with pandas, as well as combining, grouping, and aggregating data from multiple sources How to access data from external sources such as files, databases, and web services Represent and manipulate time-series data and the many of the intricacies involved with this type of data How to visualize statistical information How to use pandas to solve several common data representation and analysis problems within finance In Detail You will learn how to use pandas to perform data analysis in Python. You will start with an overview of data analysis and iteratively progress from modeling data, to accessing data from remote sources, performing numeric and statistical analysis, through indexing and performing aggregate analysis, and finally to visualizing statistical data and applying pandas to finance. With the knowledge you gain from this book, you will quickly learn pandas and how it can empower you in the exciting world of data manipulation, analysis and science. Style and approach Step-by-step instruction on using pandas within an end-to-end framework of performing data analysis Practical demonstration of using Python and pandas using interactive and incremental examples

Matplotlib for Python Developers Sep 28 2019 Leverage the power of Matplotlib to visualize and understand your data more effectively Key Features Perform effective data visualization with Matplotlib and get actionable insights from your data Design attractive graphs, charts, and 2D plots, and deploy them to the web Get the most out of Matplotlib in this practical guide with updated code and examples Book Description Python is a general-purpose programming language increasingly being used for data analysis and visualization. Matplotlib is a popular data visualization package in Python used to design effective plots and graphs. This is a practical, hands-on resource to help you visualize data with Python using the Matplotlib library. Matplotlib for Python Developers, Second Edition shows you how to create attractive graphs, charts, and plots using Matplotlib. You will also get a quick introduction to third-party packages, Seaborn, Pandas, Basemap, and Geopandas, and learn how to use them with Matplotlib. After that, you'll embed and customize your plots in third-party tools such as GTK+3, Qt 5, and wxWidgets. You'll also be able to tweak the look and feel of your visualization with the help of practical examples provided in this book. Further on, you'll explore Matplotlib 2.1.x on the web, from a cloud-based platform using third-party packages such as Django. Finally, you will integrate interactive, real-time visualization techniques into your current workflow with the help of practical real-world examples. By the end of this book, you'll be thoroughly comfortable with using the popular Python data visualization library Matplotlib 2.1.x and leveraging its power to build attractive, insightful, and powerful visualizations. What you will learn Create 2D and 3D static plots such as bar charts, heat maps, and scatter plots Get acquainted with GTK+3, Qt5, and wxWidgets to understand the UI backend of Matplotlib Develop advanced static plots with third-party packages such as Pandas, GeoPandas, and Seaborn Create interactive plots with real-time updates Develop web-based, Matplotlib-powered graph visualizations with third-party packages such as Django Write data visualization code that is readily expandable on the cloud platform Who this book is for This book is essentially for anyone who wants to create intuitive data visualizations using the Matplotlib library. If you're a data scientist or analyst and wish to create attractive visualizations using Python, you'll find this book useful. Some knowledge of Python programming is all you need to get started.

In the Light of Evolution Jun 25 2019 "This is the second volume from the In the Light of Evolution series, based on a series of Arthur M. Sackler colloquia, and designed to promote the evolutionary sciences. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges. Individually and collectively, the ILE series aims to interpret phenomena in various areas of biology through the lens of evolution, address some of the most intellectually engaging as well as pragmatically important societal issues of our times, and foster a greater appreciation of evolutionary biology as a consolidating foundation for the life sciences."--Pub. desc.

Python for Data Analysis Jan 13 2021 Get complete instructions for manipulating, processing, cleaning, and crunching datasets in Python. Updated for Python 3.6, the second edition of this hands-on guide is packed with practical case studies that show you how to solve a broad set of data analysis problems effectively. You'll learn the latest versions of pandas, NumPy, IPython, and Jupyter in the process. Written by Wes McKinney, the creator of the Python pandas project, this book is a practical, modern introduction to data science tools in Python. It's ideal for analysts new to Python and for Python programmers new to data science and scientific computing. Data files and related material are available on GitHub. Use the IPython shell and Jupyter notebook for exploratory computing Learn basic and advanced features in NumPy (Numerical Python) Get started with data analysis tools in the pandas library Use flexible tools to load, clean, transform, merge, and reshape data Create informative visualizations with matplotlib Apply the pandas groupby facility to slice, dice, and summarize datasets Analyze and manipulate regular and irregular time series data Learn how to solve real-world data analysis problems with thorough, detailed examples

Pandas and People Dec 24 2021 Part I. Empirical and theoretical foundations -- Part II. Model coupled human and natural system -- Part III. Across local to global coupled human and natural systems -- Part IV. Perspectives

The American Biology Teacher Aug 08 2020

Hands-On Data Analysis with Pandas May 29 2022 Get to grips with pandas by working with real datasets and master data discovery, data manipulation, data preparation, and handling data for analytical tasks Key FeaturesPerform efficient data analysis and manipulation tasks using pandas 1.xApply pandas to different real-world domains with the help of step-by-step examplesMake the most of pandas as an effective data exploration toolBook Description Extracting valuable business insights is no longer a 'nice-to-have', but an essential skill for anyone who handles data in their enterprise. Hands-On Data Analysis with Pandas is here to help beginners and those who are migrating their skills into data science get up to speed in no time. This book will show you how to analyze your data, get started with machine learning, and work effectively with the Python libraries often used for data science, such as pandas, NumPy, matplotlib, seaborn, and scikit-learn. Using real-world datasets, you will learn how to use the pandas library to perform data wrangling to reshape, clean, and aggregate your data. Then, you will learn how to conduct exploratory data analysis by calculating summary statistics and visualizing the data to find patterns. In the concluding chapters, you will explore some applications of anomaly detection, regression, clustering, and classification using scikit-learn to make predictions based on past data. This updated edition will equip you with the skills you need to use pandas 1.x to efficiently perform various data manipulation tasks, reliably reproduce analyses, and visualize your data for effective decision making – valuable knowledge that can be applied across multiple domains. What you will learnUnderstand how data analysts and scientists gather and analyze dataPerform data analysis and data wrangling using PythonCombine, group, and aggregate data from multiple sourcesCreate data visualizations with pandas, matplotlib, and seabornApply machine learning algorithms to identify patterns and make predictionsUse Python data science libraries to analyze real-world datasetsSolve common data representation and analysis problems using pandasBuild Python scripts, modules, and packages for reusable analysis codeWho this book is for This book is for data science beginners, data analysts, and Python developers who want to explore each stage of data analysis and scientific computing using a wide range of datasets. Data scientists looking to implement pandas in their machine learning workflow will also find plenty of valuable know-how as they progress. You'll find it easier to follow along with this book if you have a working knowledge of the Python programming language, but a Python crash-course tutorial is provided in the code bundle for anyone who needs a refresher.

The Applied TensorFlow and Keras Workshop Sep 20 2021 Cut through the noise and get real results with this workshop for beginners. Use a project-based approach to exploring machine learning with TensorFlow and Keras. Key Features Understand the nuances of setting up a deep learning programming environment Gain insights into the common components of a neural network and its essential operations Get to grips with deploying a machine learning model as an interactive web application with Flask Book Description Machine learning gives computers the ability to learn like humans. It is becoming increasingly transformational to businesses in many forms, and a key skill to learn to prepare for the future digital economy. As a beginner, you'll unlock a world of opportunities by learning the techniques you need to contribute to the domains of machine learning, deep learning, and modern data analysis using the latest cutting-edge tools. The Applied TensorFlow and Keras Workshop begins by showing you how neural networks work. After you've understood the basics, you will train a few networks by altering their hyperparameters. To build on your skills, you'll learn how to select the most appropriate model to solve the problem in hand. While tackling advanced concepts, you'll discover how to assemble a deep learning system by bringing together all the essential elements necessary for building a basic deep learning system - data, model, and prediction. Finally, you'll explore ways to evaluate the performance of your model, and improve it using techniques such as model evaluation and hyperparameter optimization. By the end of this book, you'll have learned how to build a Bitcoin app that predicts future prices, and be able to build your own models for other projects. What you will learn Familiarize yourself with the components of a neural network Understand the different types of problems that can be solved using neural networks Explore different ways to select the right architecture for your model Make predictions with a trained model using TensorBoard Discover the components of Keras and ways to leverage its features in your model Explore how you can deal with new data by learning ways to retrain your model Who this book is for If you are a data scientist or a machine learning and deep learning enthusiast, who is looking to design, train, and deploy TensorFlow and Keras models into real-world applications, then this workshop is for you. Knowledge of computer science and machine learning concepts and experience in analyzing data will help you to understand the topics explained in this book with ease.

Scientific Computing with Python - Second Edition Apr 03 2020 Leverage this example-packed, comprehensive guide for all your Python computational needs Key Features: Learn the first steps within Python to highly specialized concepts Explore examples and code snippets taken from typical programming situations within scientific computing. Delve into essential computer science concepts like iterating, object-oriented programming, testing, and MPI presented in strong connection to applications within scientific computing. Book Description: Python has tremendous potential within the scientific computing domain. This updated edition of Scientific Computing with Python features new chapters on graphical user interfaces, efficient data processing, and parallel computing to help you perform mathematical and scientific computing efficiently using Python. This book will help you to explore new Python syntax features and create different models using scientific computing principles. The book presents Python alongside mathematical applications and demonstrates how to apply Python concepts in computing with the help of examples involving Python 3.8. You'll use pandas for basic data analysis to understand the modern needs of scientific computing, and cover data module improvements and built-in features. You'll also explore numerical computation modules such as NumPy and SciPy, which enable fast access to highly efficient numerical algorithms. By learning to use the plotting module Matplotlib, you will be able to represent your computational results in talks and publications. A special chapter is devoted to SymPy, a tool for bridging symbolic and numerical computations. By the end of this Python book, you'll have gained a solid understanding of task automation and how to implement and test mathematical algorithms within the realm of scientific computing. What You Will Learn: Understand the building blocks of computational mathematics, linear algebra, and related Python objects Use Matplotlib to create high-quality figures and graphics to draw and visualize results Apply object-oriented programming (OOP) to scientific computing in Python Discover how to use pandas to enter the world of data processing Handle exceptions for writing reliable and usable code Cover manual and automatic aspects of testing for scientific programming Get to grips with parallel computing to increase computation speed Who this book is for: This book is for students with a mathematical background, university teachers designing modern courses in programming, data scientists, researchers, developers, and anyone who wants to perform scientific computation in Python.

Yoga and Āyurveda May 05 2020

Catalogue of Printed Books Jul 27 2019

Subject Area Catalog of Educational Films Listing 16 Mm Films at Primary-intermediate Level, 1980 Nov 30 2019

Sustainable Energy, second edition Nov 03 2022 The second edition of a widely used textbook that explores energy resource options and technologies with a view toward achieving sustainability on local, national, and global scales. Human survival depends on a continuing supply of energy, but the need for ever-increasing amounts of it poses a dilemma: How can we find energy sources that are sustainable and ways to convert and utilize energy that are more efficient? This widely used textbook is designed for advanced undergraduate and graduate students as well as others who have an interest in exploring energy resource options and technologies with a view toward achieving sustainability on local, national, and global scales. It clearly presents the tradeoffs and uncertainties inherent in evaluating and choosing sound energy portfolios and provides a framework for assessing policy solutions. The second edition examines the broader aspects of energy use, including resource estimation, environmental effects, and economic evaluations; reviews the main energy sources of today and tomorrow, from fossil fuels and nuclear power to biomass, hydropower, and solar energy; treats energy carriers and energy storage, transmission, and distribution; addresses end-use patterns in the transportation, industrial, and building sectors; and considers synergistic complex systems. This new edition also offers updated statistical data and references; a new chapter on the complex interactions among energy, water, and land use; expanded coverage of renewable energy; and new color illustrations. Sustainable Energy addresses the challenges of making responsible energy choices for a more sustainable future.

General Catalogue of Printed Books Aug 27 2019

Guide to Indian Railways (RRB) Assistant Loco Pilot Exam 2018 Stage I & II - 2nd Edition Feb 11 2021 The book 'Guide to Indian Railways (RRB) Assistant Loco Pilot, ALP Exam 2018 Stage I' covers: 1. Comprehensive Sections on: General Awareness, Arithmetic, General Intelligence & Reasoning and General Science & Technical Ability 2. Solved Papers for 2013 & 2014 Exams; 3. Detailed theory along with solved examples and shortcuts to solve problems; 4. Exhaustive question bank at the end of each chapter in the form of Exercise. Solutions to the Exercise have been provided at the end of each chapter. 5. The General Science & Technical Ability section has been divided into Physics, Chemistry and Biology. 6. The book provides thoroughly updated Current Affairs section.

Learning Pandas - Second Edition Aug 20 2021 Get to grips with pandas--a versatile and high-performance Python library for data manipulation, analysis, and discoveryAbout This Book Get comfortable using pandas and Python as an effective data exploration and analysis tool* Explore pandas through a framework of data analysis, with an explanation of how pandas is well suited for the various stages in a data analysis process* A comprehensive guide to pandas with many of clear and practical examples to help you get up and using pandasWho This Book Is ForThis book is ideal for data scientists, data analysts, Python programmers who want to plunge into data analysis using pandas, and anyone with a curiosity about analyzing data. Some knowledge of statistics and programming will be helpful to get the most out of this book but not strictly required. Prior exposure to pandas is also not required.What You Will Learn* Understand how data analysts and scientists think about of the processes of gathering and understanding data* Learn how pandas can be used to support the end-to-end process of data analysis* Use pandas Series and DataFrame objects to represent single and multivariate data* Slicing and dicing data with pandas, as well as combining, grouping, and aggregating data from multiple sources* How to access data from external sources such as files, databases, and web services* Represent and manipulate time-series data and the many of the intricacies involved with this type of data* How to visualize statistical information* How to use pandas to solve several common data representation and analysis problems within financeIn DetailYou will learn how to use pandas to perform data analysis in Python. You will start with an overview of data analysis and iteratively progress from modeling data, to accessing data from remote sources, performing numeric and statistical analysis, through indexing and performing aggregate analysis, and finally to visualizing statistical data and applying pandas to finance.With the knowledge you gain from this book, you will quickly learn pandas and how it can empower you in the exciting world of data manipulation, analysis and science.Style and approach* Step-by-step instruction on using pandas within an end-to-end framework of performing data analysis* Practical demonstration of using Python and pandas using interactive and incremental examples*

Case Files Emergency Medicine, Second Edition Jul 19 2021 Real life cases for the emergency medicine clerkship and shelf-exam You need exposure to high-yield cases to excel on the emergency medicine clerkship and the shelf-exam. Case Files: Emergency Medicine presents 50 real-life cases that illustrate essential concepts in emergency medicine. Each case includes a complete discussion, clinical pearls, references, definitions of key terms, and USMLE-style review questions. With this system, you'll learn in the context of real patients, rather then merely memorize facts. 50 high-yield emergency medicine cases, each with USMLE-style questions Clinical pearls highlight key concepts Primer on how to approach clinical problems and think like a doctor Proven learning system maximizes your shelf-exam scores

Pandas Cookbook Oct 29 2019 Over 95 hands-on recipes to leverage the power of pandas for efficient scientific computation and data analysisAbout This Book Use the power of pandas to solve most complex scientific computing problems with*

ease Leverage fast, robust data structures in pandas to gain useful insights from your data* Practical, easy to implement recipes for quick solutions to common problems in data using pandasWho This Book Is ForThis book is for data scientists, analysts and Python developers who wish to explore data analysis and scientific computing in a practical, hands-on manner. The recipes included in this book are suitable for both novice and advanced users, and contain helpful tips, tricks and caveats wherever necessary. Some understanding of pandas will be helpful, but not mandatory.What You Will Learn* Master the fundamentals of pandas to quickly begin exploring any dataset* Isolate any subset of data by properly selecting and querying the data* Split data into independent groups before applying aggregations and transformations to each group* Restructure data into tidy form to make data analysis and visualization easier* Prepare real-world messy datasets for machine learning* Combine and merge data from different sources through pandas SQL-like operations* Utilize pandas unparalleled time series functionality* Create beautiful and insightful visualizations through pandas direct hooks to Matplotlib and SeabornIn DetailThis book will provide you with unique, idiomatic, and fun recipes for both fundamental and advanced data manipulation tasks with pandas. Some recipes focus on achieving a deeper understanding of basic principles, or comparing and contrasting two similar operations. Other recipes will dive deep into a particular dataset, uncovering new and unexpected insights along the way.The pandas library is massive, and it's common for frequent users to be unaware of many of its more impressive features. The official pandas documentation, while thorough, does not contain many useful examples of how to piece together multiple commands like one would do during an actual analysis. This book guides you, as if you were looking over the shoulder of an expert, through practical situations that you are highly likely to encounter.Many advanced recipes combine several different features across the pandas library to generate results.Style and approachThe author relies on his vast experience teaching pandas in a professional setting to deliver very detailed explanations for each line of code in all of the recipes. All code and dataset explanations exist in Jupyter Notebooks, an excellent interface for exploring data.*

Pandas Brain Teasers Oct 22 2021 This book contains 25 short programs that will challenge your understanding of Pandas. Like any big project, the Pandas developers had to make some design decisions that at times seem surprising. This book uses those quirks as a teaching opportunity. By understanding the gaps in your knowledge, you'll become better at what you do. Some of the teasers are from the author's experience shipping bugs to production, and some from others doing the same. Teasers and puzzles are fun, and learning how to solve them can teach you to avoid programming mistakes and maybe even impress your colleagues and future employers. Working with data is central to nearly everything we do, from disease contact tracing and analyzing health records to smart meters that track utility consumption behavior. With the power of Python's pandas library, you can process and analyze this data in a highly efficient and simple-to-understand way. And with 25 brain teasers designed to turn this technology's quirks into a teaching opportunity, you'll be honing your data science skills while having fun at the same time. Following a simple format, you'll challenge yourself and your understanding of pandas. Read a short Python program that uses pandas, try to guess the output, run the code yourself, and then go to the next page for an explanation of the solution. From common pitfalls and hidden gotchas to unexpected twists and turns, you'll deepen your understanding of pandas, learn to write more efficient code, and reduce the number of bugs in the software you develop. You may even impress your colleagues and your employers, both present and future. Learn the tricks of the trade with Python's pandas, in one of the most fun and creative ways around. What You Need: To run the code you'll need Python version 3.8 or upper and Pandas version 1.0 or upper installed. We use Python version 3.8.3 and Pandas version 1.0.5; the output might change in future versions.

Mastering pandas Oct 02 2022 Perform advanced data manipulation tasks using pandas and become an expert data analyst. Key FeaturesManipulate and analyze your data expertly using the power of pandasWork with missing data and time series data and become a true pandas expertIncludes expert tips and techniques on making your data analysis tasks easierBook Description pandas is a popular Python library used by data scientists and analysts worldwide to manipulate and analyze their data. This book presents useful data manipulation techniques in pandas to perform complex data analysis in various domains. An update to our highly successful previous edition with new features, examples, updated code, and more, this book is an in-depth guide to get the most out of pandas for data analysis. Designed for both intermediate users as well as seasoned practitioners, you will learn advanced data manipulation techniques, such as multi-indexing, modifying data structures, and sampling your data, which allow for powerful analysis and help you gain accurate insights from it. With the help of this book, you will apply pandas to different domains, such as Bayesian statistics, predictive analytics, and time series analysis using an example-based approach. And not just that; you will also learn how to prepare powerful, interactive business reports in pandas using the Jupyter notebook. By the end of this book, you will learn how to perform efficient data analysis using pandas on complex data, and become an expert data analyst or data scientist in the process. What you will learnSpeed up your data analysis by importing data into pandasKeep relevant data points by selecting subsets of your dataCreate a high-quality dataset by cleaning data and fixing missing valuesCompute actionable analytics with grouping and aggregation in pandasMaster time series data analysis in pandasMake powerful reports in pandas using Jupyter notebooksWho this book is for This book is for data scientists, analysts and Python developers who wish to explore advanced data analysis and scientific computing techniques using pandas. Some fundamental understanding of Python programming and familiarity with the basic data analysis concepts is all you need to get started with this book.

The Athenaeum Jul 07 2020

Python Data Analytics Sep 08 2020 Explore the latest Python tools and techniques to help you tackle the world of data acquisition and analysis. You'll review scientific computing with NumPy, visualization with matplotlib, and machine learning with scikit-learn. This revision is fully updated with new content on social media data analysis, image analysis with OpenCV, and deep learning libraries. Each chapter includes multiple examples demonstrating how to work with each library. At its heart lies the coverage of pandas, for high-performance, easy-to-use data structures and tools for data manipulation Author Fabio Nelli expertly demonstrates using Python for data processing, management, and information retrieval. Later chapters apply what you've learned to handwriting recognition and extending graphical capabilities with the JavaScript D3 library. Whether you are dealing with sales data, investment data, medical data, web page usage, or other data sets, Python Data Analytics, Second Edition is an invaluable reference with its examples of storing, accessing, and analyzing data. What You'll LearnUnderstand the core concepts of data analysis and the Python ecosystem Go in depth with pandas for reading, writing, and processing data Use tools and techniques for data visualization and image analysis Examine popular deep learning libraries Keras, Theano,TensorFlow, and PyTorch Who This Book Is For Experienced Python developers who need to learn about Pythonic tools for data analysis

Red Panda Apr 15 2021 Red Panda: Biology and Conservation of the First Panda, Second Edition, provides the most up-to-date research, data, and conservation solutions for the red pandas, Ailurus species. Since the publication of the previous edition in 2010, the International Union for Conservation of Nature (IUCN) updated the threat level of red pandas, and they are now considered to be endangered. This latest edition is updated to provide an in-depth look at the scientific and conservation-based issues urgently facing the red panda today. Led by one of the world's leading authorities and advocates for red panda conservation, this new edition includes data from the Population and Habitat Viability (PHVA) workshops conducted in three of the species' range states, Nepal, China, and India; these workshops utilized firsthand information on the decrease of red panda populations due to factors including deforestation, illegal pet trade, human population growth, and climate change. This book also includes updated information from the first edition on reproduction, anatomy, veterinary care, zoo management, and fossil history. Discusses the evidence for two species of red panda and how this might impact conservation efforts Reports on status in the wild, looks at conservation issues and considers the future of this unique species Written by long-standing red panda experts as well as those specializing in fields involving cutting-edge red panda research Includes new chapters on topic including the impact of climate change, how bamboo influences distribution, and conservation in Bhutan and Myanmar

Aerosols Handbook Jun 05 2020 With the rapid growth of the nanotechnology industry, the need to understand the biological effects of aerosol exposure has become increasingly important. Featuring contributions by leading experts in the field, Aerosols Handbook: Measurement, Dosimetry, and Health Effects, Second Edition offers an up-to-date overview of many aspects of aerosols, f

Python Data Analysis Jun 17 2021 Understand data analysis pipelines using machine learning algorithms and techniques with this practical guide Key Features Prepare and clean your data to use it for exploratory analysis, data manipulation, and data wrangling Discover supervised, unsupervised, probabilistic, and Bayesian machine learning methods Get to grips with graph processing and sentiment analysis Book Description Data analysis enables you to generate value from small and big data by discovering new patterns and trends, and Python is one of the most popular tools for analyzing a wide variety of data. With this book, you'll get up and running using Python for data analysis by exploring the different phases and methodologies used in data analysis and learning how to use modern libraries from the Python ecosystem to create efficient data pipelines. Starting with the essential statistical and data analysis fundamentals using Python, you'll perform complex data analysis and modeling, data manipulation, data cleaning, and data visualization using easy-to-follow examples. You'll then understand how to conduct time series analysis and signal processing using ARMA models. As you advance, you'll get to grips with smart processing and data analytics using machine learning algorithms such as regression, classification, Principal Component Analysis (PCA), and clustering. In the concluding chapters, you'll work on real-world examples to analyze textual and image data using natural language processing (NLP) and image analytics techniques, respectively. Finally, the book will demonstrate parallel computing using Dask. By the end of this data analysis book, you'll be equipped with the skills you need to prepare data for analysis and create meaningful data visualizations for forecasting values from data. What you will learn Explore data science and its various process models Perform data manipulation using NumPy and pandas for aggregating, cleaning, and handling missing values Create interactive visualizations using Matplotlib, Seaborn, and Bokeh Retrieve, process, and store data in a wide range of formats Understand data preprocessing and feature engineering using pandas and scikit-learn Perform time series analysis and signal processing using sunspot cycle data Analyze textual data and image data to perform advanced analysis Get up to speed with parallel computing using Dask Who this book is for This book is for data analysts, business analysts, statisticians, and data scientists looking to learn how to use Python for data analysis. Students and academic faculties will also find this book useful for learning and teaching Python data analysis using a hands-on approach. A basic understanding of math and working knowledge of the Python programming language will help you get started with this book.

Information Resources in Toxicology Nov 10 2020 This new fifth edition of Information Resources in Toxicology offers a consolidated entry portal for the study, research, and practice of toxicology. Both volumes represents a unique, wide-ranging, curated, international, annotated bibliography, and directory of major resources in toxicology and allied fields such as environmental and occupational health, chemical safety, and risk assessment. The editors and authors are among the leaders of the profession sharing their cumulative wisdom in toxicology's subdisciplines. This edition keeps pace with the digital world in directing and linking readers to relevant websites and other online tools. Due to the increasing size of the hardcopy publication, the current edition has been divided into two volumes to make it easier to handle and consult. Volume 1: Background, Resources, and Tools, arranged in 5 parts, begins with chapters on the science of toxicology, its history, and informatics framework in Part 1. Part 2 continues with chapters organized by more specific subject such as cancer, clinical toxicology, genetic toxicology, etc. The categorization of chapters by resource format, for example, journals and newsletters, technical reports, organizations constitutes Part 3. Part 4 further considers toxicology's presence via the Internet, databases, and software tools. Among the miscellaneous topics in the concluding Part 5 are laws and regulations, professional education, grants and funding, and patents. Volume 2: The Global Arena offers contributed chapters focusing on the toxicology contributions of over 40 countries, followed by a glossary of toxicological terms and an appendix of popular quotations related to the field. The book, offered in both print and electronic formats, is carefully structured, indexed, and cross-referenced to enable users to easily find answers to their questions or serendipitously locate useful knowledge they were not originally aware they needed. Among the many timely topics receiving increased emphasis are disaster preparedness, nanotechnology, -omics, risk assessment, societal implications such as ethics and the precautionary principle, climate change, and children's environmental health. Introductory chapters provide a backdrop to the science of toxicology, its history, the origin and status of toxicoinformatics, and starting points for identifying resources. Offers an extensive array of chapters organized by subject, each highlighting resources such as journals, databases,organizations, and review articles. Includes chapters with an emphasis on format such as government reports, general interest publications, blogs, and audiovisuals. Explores recent internet trends, web-based databases, and software tools in a section on the online environment. Concludes with a miscellany of special topics such as laws and regulations, chemical hazard communication resources, careers and professional education, K-12 resources, funding, poison control centers, and patents. Paired with Volume Two, which focuses on global resources, this set offers the most comprehensive compendium of print, digital, and organizational resources in the toxicological sciences with over 120 chapters contributions by experts and leaders in the field.

AIIMS General Knowledge with Logical Thinking with Monthly Current Affairs Update ebook - 2nd Edition Mar 15 2021 The thoroughly updated 2nd edition of the Bestseller AIIMS General Knowledge with Logical Thinking is now more powerful with the introduction of information pertaining to the 2017 questions. The book now coversquestions of the 2 sets of 2017 Solved Papers. The book already contained the 2 sets of 2016 Solved Papers. The book comprises of Indian Panorama, World Panorama, History, Indian Polity, Geography, Economy, Science, Technology, Sports, Art & Culture, Healthcare, Logical Thinking, Computers etc. The book also provides an Update on current trends & issues with MCQs.