

# Primary Science Taking The Plunge

Taking the Naturalistic Turn, Or How Real Philosophy of Science Is DoneA Student's Guide to Open Science: Using the  
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this innovative book presents candid informal debates among scholars who examine the benefits and problems of studying science in the same way that scientists study the natural world

dr charlotte r pennington has pulled off a remarkable trifecta of being clear concise and comprehensive in covering the origins of the open science movement and practical advice for adopting the behaviors professor brian nosek executive director center for open science university of virginia us i believe this book will be extremely valuable to both students and academics who wish to further their understanding of transparent research in psychology and i have already taken steps towards adding this as a core text in my department psychology teaching review my hope is that every psychology student will finish their degree with a heavily annotated well thumbed copy of this important and timely book dr madeleine pownall university of leeds uk this book should be on the reading list for all university science degrees and on all library bookshelves it is concise accessible and remarkably interactive with brilliant use of examples and learning activities is there a better instruction manual on how to do science properly if there is i haven t seen it professor chris chambers cardiff university uk this book will equip future generations with the tools necessary to improve our disciplines and thereby represents a significant ray of hope for the future essential and timely dr emma henderson university of surrey uk a student s guide to open science explores the so called replication crisis in psychology the inherent difficulties in replicating or reproducing research results to test the robustness of findings while delving into the ways that open science can address the crisis by transforming research practice students will develop a fundamental understanding of the origins and drivers of the crisis and learn how open science practices can enhance research transparency replication and reproducibility with a handy digestible guide for students and researchers alike on how to implement open science practices within their own workflow as well as pedagogic teaching and learning activities that can be re used by educators pennington s new book is an essential guide to navigating the replication crisis key features of this book include an overview of landmark events that will mark the history of the replication crisis case studies of classic

psychological studies undergoing replication test yourself activities to reinforce learning of key concepts including an open science crossword top tips for adopting open science practices including study preregistration registered reports and open materials code and data useful illustrations to aid understanding and facilitate revision new concepts and practices can often feel overwhelming but this book aims to help students and educators pick what they want from the open science buffet and return to the table to fill up their plates again and again remember we are all students of open science and will be for many years to come dr charlotte r pennington is a lecturer in psychology at aston university birmingham uk and a fellow of the higher education academy she is an expert in open science and advocates for the teaching of this within higher education pedagogy

learn data science by doing data science data science using python and r will get you plugged into the world s two most widespread open source platforms for data science python and r data science is hot bloomberg called data scientist the hottest job in america python and r are the top two open source data science tools in the world in data science using python and r you will learn step by step how to produce hands on solutions to real world business problems using state of the art techniques data science using python and r is written for the general reader with no previous analytics or programming experience an entire chapter is dedicated to learning the basics of python and r then each chapter presents step by step instructions and walkthroughs for solving data science problems using python and r those with analytics experience will appreciate having a one stop shop for learning how to do data science using python and r topics covered include data preparation exploratory data analysis preparing to model the data decision trees model evaluation misclassification costs naïve bayes classification neural networks clustering regression modeling dimension reduction and association rules mining further exciting new topics such as random forests and general linear models are also included the book emphasizes data driven error costs to enhance profitability which avoids the common pitfalls that may cost a company millions of dollars data science using

python and r provides exercises at the end of every chapter totaling over 500 exercises in the book readers will therefore have plenty of opportunity to test their newfound data science skills and expertise in the hands on analysis exercises readers are challenged to solve interesting business problems using real world data sets

since jan 1901 the official proceedings and most of the papers of the american association for the advancement of science have been included in science

mathematical models have become a crucial way for the earth scientist to understand and predict how our planet functions and evolves through time and space the finite element method fem is a remarkably flexible and powerful tool with enormous potential in the earth sciences this pragmatic guide explores how a variety of different earth science problems can be translated and solved with fem assuming only basic programming experience this book begins with a general introduction to numerical modeling and includes multiple sample matlab codes to illustrate how fem is implemented in practice textboxes have been included to provide additional detail such as specialized matlab usage or advanced topics covering all the key aspects this is essential reading for those looking to master the technique as well as those simply seeking to increase their basic level of understanding and appreciation of fem

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