

Chapter 2: exploring data with tables and graphs. (Feb. 6) online

2-1: frequency distributions for organizing and summarizing data.

2-2 Histograms

2-3 graphs that enlighten and graphs that deceive (one-half full)

2-4 scatterplots, correlation, and regression

Continued: (lecture 3 Class)

- cumulative frequency distribution:
 - o the frequency for each class is the sum of the frequencies for that class and all previous classes.
- critical thinking: using frequency distributions to understand data:
 - o in statistics we are often interested in determining whether that data have a normal distribution.
 - the frequencies start low, then increase to one or two high frequencies, and then decrease to a low frequency.
 - the distribution is approximately symmetric, frequencies preceding the maximum frequency should be roughly a mirror image of those that follow the maximum frequency.
- Gaps:
 - o the presence of gaps can show that the data are from two or more different populations.
 - o however, the converse is not true, because data from different populations do not necessarily result in gaps.

Example: Exploring Data: What Does a Gap Tell Us? (1-1-15)

The table shows a frequency distribution of the weights (grams) of randomly selected pennies.

Weight (grams)	Frequency
2.50000	20
2.50000	20
2.50000	0
2.50000	0
2.50000	0
2.50000	0
2.50000	0
2.50000	20
2.50000	0

Example: Exploring Data: What Does a Gap Tell Us? (1-1-15)

- Examination of the frequencies reveals a large gap between the lightest pennies and the heaviest pennies.
- This suggests that we have two different populations:
 - Pennies made before 1982 are 95% copper and 5% zinc.
 - Pennies made after 1982 are 2.5% copper and 97.5% zinc.
- What explains the large gap between the lightest pennies and the heaviest pennies in the table?

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D Keegan



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Analysing Quantitative Data Raymond A Kent, 2015-03-16 This innovative book provides a fresh take on quantitative data analysis within the social sciences. It presents variable based and case based approaches side by side encouraging you to learn a range of approaches and to understand which is the most appropriate for your research. Using two multidisciplinary non experimental datasets throughout the book demonstrates that data analysis is really an active dialogue between ideas and evidence. Each dataset is returned to throughout the chapters enabling you to see the role of the researcher in action. It also showcases the difference between each approach and the significance of researchers decisions that must be made as you move through your analysis. The book is divided into four clear sections: Data and their presentation, Variable based analyses, Case based analyses, Comparing and combining approaches. Clear, original and written for students, this book should be compulsory reading for anyone looking to conduct non experimental quantitative data analysis. [Discovering Statistics Using IBM SPSS Statistics](#)

Andy Field, 2017-11-14 With an exciting new look, new characters to meet and its unique combination of humour and step by step instruction, this award winning book is the statistics lifesaver for everyone. From initial theory through to regression, factor analysis and multilevel modelling, Andy Field animates statistics and SPSS software with his famously bizarre examples and activities. What's brand new: A radical new design with original illustrations and even more colour. A maths diagnostic tool to help students establish what areas they need to revise and improve on. A revamped online resource that uses video case studies, datasets, testbanks and more to help students negotiate project work, master data management techniques and apply key writing and employability skills. New sections on replication, open science and Bayesian thinking. Now fully up to date with latest versions of IBM SPSS Statistics. All the online resources above, video case studies, datasets, testbanks can be easily integrated into your institution's virtual learning environment or learning management system. This allows you to customize and curate content for use in module preparation, delivery and assessment. Please note that ISBN 9781526445780 comprises the paperback edition of the Fifth Edition and the student version of IBM SPSS Statistics. *EBOOK: Business Research Methods*

Boris Blumberg, Donald Cooper, Pamela Schindler, 2014-03-16 Are you about to begin your dissertation or a research project but don't know what topic to choose? Are you unsure of what research methods to use and how they should be applied to your project? Are you worried about how to write up your research project? Then this is the book for you. A balanced coverage of qualitative and quantitative methods means that no matter what approach you choose to use for your project, there are examples and case studies to help guide you through the process. Student Research boxes provide an insight into situations and research decisions that students have encountered in real life projects. They contain hints, tips and sometimes questions to help you think through your own project. A Running Case Study charts the progression of two student research projects, one qualitative and one quantitative, and shows how the content of each chapter can be used to develop their projects. Thought provoking questions are included in order to help you

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Statistical Literacy Rhys Jones,2024-04-13 In an increasingly data centric world we all need to know how to read and interpret statistics But where do we begin This book breaks statistical terms and concepts down in a clear straightforward way From understanding what data are telling you to exploring the value of good storytelling with numbers it equips you with the information and skills you need to become statistically literate It also Dispels misconceptions about the nature of statistics to help you avoid common traps Helps you put your learning into practice with over 60 Tasks and Develop Your Skills activities Draws on real world research to demonstrate the messiness of data and show you a path through it Approachable and down to earth this guide is aimed at undergraduates across the social sciences psychology business and beyond who want to engage confidently with quantitative methods or statistics It forms a reassuring aid for anyone looking to understand the foundations of statistics before their course advances or as a refresher on key content

Resources in Education ,1998-12 *Nursing Times, Nursing Mirror* ,1994 **SIGKDD Explorations** ,2000 **American Book Publishing Record** ,2005 **Teaching for Equity and Diversity** Rovell Patrick Solomon,Cynthia Levine-Rasky,Jordan Singer,2003 This book is the first national study of Canadian educators perspectives and practices of multicultural and antiracism education It explores teachers perspectives on race and ethno cultural equity and offers solutions for some of the most pressing social justice and diversity issues facing educators in contemporary Canadian schools

and society Solomon and Levine Rasky suggest that the ineffectiveness of professional development initiatives to move educators from a posture of resistance to one of transformation points to the need for a more progressive teacher education pedagogy Based on a proven Urban Diversity Teacher Education model this book provides theoretically driven practices for simultaneous renewal of teacher education in the university partnership schools and the communities they serve It links the sensitive issues of race ethnicity and culture to the broader equity social justice and diversity themes in Canadian society and institutions Teaching for Equity and Diversity will be useful to teachers graduate students in education teacher educators and cultural workers who are committed to inclusive and democratic schooling

Technometrics, 2004 **Strategy Planning, Program Evaluation and Public Accountability for Health Service Professionals** Joseph Lloyd-Jones, Farhad Simyar, 1994 **Economic and Political Weekly**, 2005-07 *Practical Statistics by Example Using Microsoft Excel* Terry Sincich, David M. Levine, David Stephan, 1999 This manual includes an Excel primer providing basic instructions on using Windows and Excel Excel Tutorials appear at the end of pertinent chapters Self test questions key terms formulas and symbols are included Yearbook of International Organizations 2014-2015 (Volume 4) Union Of International Associations, Union of International Associations, 2014-09-17 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and activities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Providing both an international organizations and research bibliography Volume 4 cites over 46 000 publications and information resources supplied by international organizations and provides nearly 18 000 research citations under 40 subject headings This volume also includes a research bibliography on international organizations and transnational associations

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Ethnic Minority Health Craig Haynes, 1997 This guide encompasses in one volume various minority health issues for the four major US ethnic minority groups Native Americans Alaska Natives African Americans Hispanic Americans and Asian Pacific Islander Americans Features nine quick access sections that are divided first by material format or broad subject area and then by ethnic group provides a valuable service A bibliography such as this introduces the reader to the literature on a specific topic ANNALS OF INTERNAL MEDICINE America, History and Life, 2007 Article abstracts and citations of reviews and dissertations covering the United States and Canada Sociological Abstracts Leo P. Chall, 1988

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