Causality: Models, Reasoning and Inference

By Judea Pearl

Causality: Models, Reasoning and Inference By Judea Pearl

Written by one of the preeminent researchers in the field, this book provides a comprehensive exposition of modern analysis of causation. It shows how causality has grown from a nebulous concept into a mathematical theory with significant applications in the fields of statistics, artificial intelligence, economics, philosophy, cognitive science, and the health and social sciences. Judea Pearl presents and unifies the probabilistic, manipulative, counterfactual, and structural approaches to causation and devises simple mathematical tools for studying the relationships between causal connections and statistical associations. The book will open the way for including causal analysis in the standard curricula of statistics, artificial intelligence, business, epidemiology, social sciences, and economics. Students in these fields will find natural models, simple inferential procedures, and precise mathematical definitions of causal concepts that traditional texts have evaded or made unduly complicated. The first edition of Causality has led to a paradigmatic change in the way that causality is treated in statistics, philosophy, computer science, social science, and economics. Cited in more than 5,000 scientific publications, it continues to liberate scientists from the traditional molds of statistical thinking. In this revised edition, Judea Pearl elucidates thorny issues, answers readers' questions, and offers a panoramic view of recent advances in this field of research. Causality will be of interests to students and professionals in a wide variety of fields. Anyone who wishes to elucidate meaningful relationships from data, predict effects of actions and policies, assess explanations of reported events, or form theories of causal understanding and causal speech will find this book stimulating and invaluable.

⬇ **Download** Causality: Models, Reasoning and Inference ...pdf

📄 **Read Online** Causality: Models, Reasoning and Inference ...pdf

Causality: Models, Reasoning and Inference

By Judea Pearl

Causality: Models, Reasoning and Inference By Judea Pearl

Written by one of the preeminent researchers in the field, this book provides a comprehensive exposition of modern analysis of causation. It shows how causality has grown from a nebulous concept into a mathematical theory with significant applications in the fields of statistics, artificial intelligence, economics, philosophy, cognitive science, and the health and social sciences. Judea Pearl presents and unifies the probabilistic, manipulative, counterfactual, and structural approaches to causation and devises simple mathematical tools for studying the relationships between causal connections and statistical associations. The book will open the way for including causal analysis in the standard curricula of statistics, artificial intelligence, business, epidemiology, social sciences, and economics. Students in these fields will find natural models, simple inferential procedures, and precise mathematical definitions of causal concepts that traditional texts have evaded or made unduly complicated. The first edition of Causality has led to a paradigmatic change in the way that causality is treated in statistics, philosophy, computer science, social science, and economics. Cited in more than 5,000 scientific publications, it continues to liberate scientists from the traditional molds of statistical thinking. In this revised edition, Judea Pearl elucidates thorny issues, answers readers' questions, and offers a panoramic view of recent advances in this field of research. Causality will be of interests to students and professionals in a wide variety of fields. Anyone who wishes to elucidate meaningful relationships from data, predict effects of actions and policies, assess explanations of reported events, or form theories of causal understanding and causal speech will find this book stimulating and invaluable.

Causality: Models, Reasoning and Inference By Judea Pearl Bibliography

- Sales Rank: #174205 in Books
- Brand: Brand: Cambridge University Press
- Published on: 2009-09-14
- Original language: English
- Number of items: 1
- Dimensions: 9.96" h x 1.18" w x 8.46" l, 2.26 pounds
- Binding: Hardcover
- 484 pages

⬇ **Download** Causality: Models, Reasoning and Inference ...pdf

▤ **Read Online** Causality: Models, Reasoning and Inference ...pdf

Download and Read Free Online Causality: Models, Reasoning and Inference By Judea Pearl

Editorial Review

Review
"Make no mistake about it: This is an important book.... The field has no shortage of lively controversy and divergent opinion, but be that as it may, this is certainly one of the contributions that will bring this material further out of the closet and into the face of the broader statistical community, a move that we should welcome both as consumers and as testers of its utility."
Journal of the American Statistical Association

"Pearl's career has been motivated by problems of artificial intelligence, but the implications of this book are much broader. The distinctions he raises and the mathematical foundation he assembles are critical for every field of scientific endeavor. This updated edition of a modern classic deserves a broad and attentive audience."
H. Van Dyke Parunak, Computing Reviews

"Pearl's book is about probabilistic approaches to causality and it gives, especially, empirical researchers working with observational data an immense aid to their research. It also gives theoretical statisticians something to think about as it raises many issues of estimation for example in respective data generating processes. ... This work of Pearl's is an invaluable contribution to the current discussion on the topic of causal modeling. As described by the author his main objective of the book is to develop a framework that integrates substantive knowledge including counterfactuals (through new notations and concepts) with statistical data so as to refine the former and to interpret the latter."
Priyantha Wijayatunga, Significance

About the Author
Judea Pearl is professor of computer science and statistics at the University of California, Los Angeles, where he directs the Cognitive Systems Laboratory and conducts research in artificial intelligence, human reasoning, and philosophy of science. The author of Heuristics and Probabilistic Reasoning, he is a member of the National Academy of Engineering and a Founding Fellow of the American Association for Artificial Intelligence. Dr Pearl is the recipient of the IJCAI Research Excellence Award for 1999, the London School of Economics Lakatos Award for 2001, and the ACM Alan Newell Award for 2004. In 2008, he received the Franklin Medal for computer and cognitive science from the Franklin Institute.

Users Review

From reader reviews:

Lisa Hegland:

Information is provisions for individuals to get better life, information these days can get by anyone in everywhere. The information can be a expertise or any news even a concern. What people must be consider whenever those information which is within the former life are challenging to be find than now is taking seriously which one would work to believe or which one typically the resource are convinced. If you get the unstable resource then you get it as your main information we will see huge disadvantage for you. All of those possibilities will not happen throughout you if you take Causality: Models, Reasoning and Inference as the daily resource information.

Lilian Anderson:

Do you have something that you enjoy such as book? The book lovers usually prefer to decide on book like comic, short story and the biggest an example may be novel. Now, why not seeking Causality: Models, Reasoning and Inference that give your entertainment preference will be satisfied simply by reading this book. Reading routine all over the world can be said as the means for people to know world far better then how they react to the world. It can't be claimed constantly that reading behavior only for the geeky particular person but for all of you who wants to possibly be success person. So , for every you who want to start examining as your good habit, you are able to pick Causality: Models, Reasoning and Inference become your own personal starter.

Robert Caldwell:

You may spend your free time to study this book this book. This Causality: Models, Reasoning and Inference is simple to create you can read it in the park, in the beach, train in addition to soon. If you did not get much space to bring often the printed book, you can buy the actual e-book. It is make you quicker to read it. You can save the actual book in your smart phone. Thus there are a lot of benefits that you will get when you buy this book.

David Gonzales:

Is it you actually who having spare time and then spend it whole day by simply watching television programs or just resting on the bed? Do you need something totally new? This Causality: Models, Reasoning and Inference can be the respond to, oh how comes? A book you know. You are therefore out of date, spending your spare time by reading in this completely new era is common not a geek activity. So what these guides have than the others?

Download and Read Online Causality: Models, Reasoning and Inference By Judea Pearl #23HW07JYR45

Read Causality: Models, Reasoning and Inference By Judea Pearl for online ebook

Causality: Models, Reasoning and Inference By Judea Pearl Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Causality: Models, Reasoning and Inference By Judea Pearl books to read online.

Online Causality: Models, Reasoning and Inference By Judea Pearl ebook PDF download

Causality: Models, Reasoning and Inference By Judea Pearl Doc

Causality: Models, Reasoning and Inference By Judea Pearl Mobipocket

Causality: Models, Reasoning and Inference By Judea Pearl EPub