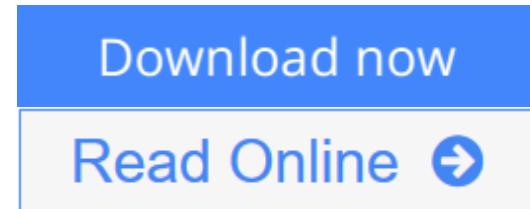


Imagery in Scientific Thought Creating 20th-Century Physics

By MILLER



Imagery in Scientific Thought Creating 20th-Century Physics By MILLER

One of the great mysteries of the human mind is its power to create new forms of knowledge. Arthur I. Miller is a historian of science whose approach has been strongly influenced by current work in cognitive science, and in this book he shows how the two fields might be fruitfully linked to yield new insights into the creative process.

The first two sections of this book trace the relationship of creative thinking and the construction of new scientific concepts in the physics of Poincaré, Einstein, Boltzmann, Bohr, and Heisenberg (scientists whose research was influenced by their consideration of the nature of thinking itself). These case studies are then used as data to test the attempts of modern psychologists to account for creative development through Gestalt psychology, cognitive science, and genetic epistemology.

Arthur I. Miller is University Professor of Philosophy and History, University of Lowell, and an Associate of the Physics Department, Harvard University. He is also an Associate Editor of the *American Journal of Physics*.

 [Download Imagery in Scientific Thought Creating 20th-Centur ...pdf](#)

 [Read Online Imagery in Scientific Thought Creating 20th-Cent ...pdf](#)

Imagery in Scientific Thought Creating 20th-Century Physics

By MILLER

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER

One of the great mysteries of the human mind is its power to create new forms of knowledge. Arthur I. Miller is a historian of science whose approach has been strongly influenced by current work in cognitive science, and in this book he shows how the two fields might be fruitfully linked to yield new insights into the creative process.

The first two sections of this book trace the relationship of creative thinking and the construction of new scientific concepts in the physics of Poincaré, Einstein, Boltzmann, Bohr, and Heisenberg (scientists whose research was influenced by their consideration of the nature of thinking itself). These case studies are then used as data to test the attempts of modern psychologists to account for creative development through Gestalt psychology, cognitive science, and genetic epistemology.

Arthur I. Miller is University Professor of Philosophy and History, University of Lowell, and an Associate of the Physics Department, Harvard University. He is also an Associate Editor of the *American Journal of Physics*.

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER Bibliography

- Rank: #3399639 in Books
- Brand: Brand: Birkhäuser Boston
- Published on: 1984-01-01
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 9.75" h x 6.75" w x 1.00" l, .0 pounds
- Binding: Hardcover
- 355 pages

 [Download Imagery in Scientific Thought Creating 20th-Centur ...pdf](#)

 [Read Online Imagery in Scientific Thought Creating 20th-Cent ...pdf](#)

Download and Read Free Online Imagery in Scientific Thought Creating 20th-Century Physics By MILLER

Editorial Review

Review

"This fascinating excursion through the history of twentieth-century physics puts cognitive psychology in a new, broader perspective."

- **Stephen M. Kosslyn**, Harvard University

"Miller's book is a pioneering effort to combine the insights of Max Wertheimer's Gestalt psychology, Jean Piaget's genetic epistemology, modern research on mental imagery and other branches of cognitive psychology in explaining the inner workings of the history of physics from about 1900 to 1950. He moves us a long step toward a necessary synthesis of disciplines in trying to understand the interplay of intuition and imagination on one side with conceptual and logical thinking on the other."

- **Howard E. Gruber**, University of Geneva and Rutgers University

Users Review

From reader reviews:

Tyler Woodley:

Why don't make it to be your habit? Right now, try to ready your time to do the important act, like looking for your favorite guide and reading a reserve. Beside you can solve your short lived problem; you can add your knowledge by the book entitled Imagery in Scientific Thought Creating 20th-Century Physics. Try to face the book Imagery in Scientific Thought Creating 20th-Century Physics as your pal. It means that it can for being your friend when you sense alone and beside that course make you smarter than previously. Yeah, it is very fortuned in your case. The book makes you much more confidence because you can know everything by the book. So , we need to make new experience as well as knowledge with this book.

Yvonne Matz:

Throughout other case, little persons like to read book Imagery in Scientific Thought Creating 20th-Century Physics. You can choose the best book if you'd prefer reading a book. Provided that we know about how is important the book Imagery in Scientific Thought Creating 20th-Century Physics. You can add expertise and of course you can around the world by way of a book. Absolutely right, simply because from book you can know everything! From your country until eventually foreign or abroad you may be known. About simple point until wonderful thing you can know that. In this era, we could open a book or maybe searching by internet device. It is called e-book. You can use it when you feel fed up to go to the library. Let's read.

April Miller:

Nowadays reading books be than want or need but also turn into a life style. This reading addiction give you lot of advantages. Associate programs you got of course the knowledge your information inside the book which improve your knowledge and information. The information you get based on what kind of guide you read, if you want have more knowledge just go with education and learning books but if you want feel happy read one together with theme for entertaining for example comic or novel. The Imagery in Scientific Thought Creating 20th-Century Physics is kind of book which is giving the reader erratic experience.

Debra Espiritu:

Reading can called thoughts hangout, why? Because while you are reading a book particularly book entitled Imagery in Scientific Thought Creating 20th-Century Physics your mind will drift away trough every dimension, wandering in each and every aspect that maybe unfamiliar for but surely will become your mind friends. Imaging every single word written in a book then become one form conclusion and explanation this maybe you never get before. The Imagery in Scientific Thought Creating 20th-Century Physics giving you one more experience more than blown away your brain but also giving you useful information for your better life with this era. So now let us demonstrate the relaxing pattern here is your body and mind are going to be pleased when you are finished examining it, like winning a game. Do you want to try this extraordinary paying spare time activity?

Download and Read Online Imagery in Scientific Thought Creating 20th-Century Physics By MILLER #XTJ5964GOSY

Read Imagery in Scientific Thought Creating 20th-Century Physics By MILLER for online ebook

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER 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 Imagery in Scientific Thought Creating 20th-Century Physics By MILLER books to read online.

Online Imagery in Scientific Thought Creating 20th-Century Physics By MILLER ebook PDF download

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER Doc

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER Mobipocket

Imagery in Scientific Thought Creating 20th-Century Physics By MILLER EPub