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classroom, curricula,  
and textbooks while  
dealing with  
concepts such as law,  
theory, model,  
explanation,  
hypothesis,  
observation,  
evidence and  
idealization,  
generally ignore  
elements of the  
history and  
philosophy of

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science. This book proposes that the conceptual understanding of chemistry requires knowledge and understanding of the history and philosophy of science. “ Professor Niaz ’ s book is most welcome, coming at a time when there is an urgently felt need to

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Upgrade the teaching of science. The book is a huge aid for adding to the usual way - presenting science as a series of mere facts - also the necessary mandate: to show how science is done, and how science, through its history and philosophy, is part of the cultural

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development of  
humanity.” Gerald  
Holton, Mallinckrodt

Professor of Physics &

Professor of History

of Science, Harvard

University “ In this

stimulating and

sophisticated blend

of history of

chemistry,

philosophy of

science, and science

pedagogy, Professor



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Mansoor Niaz has succeeded in offering a promising new approach to the teaching of fundamental ideas in chemistry. Historians and philosophers of chemistry --- and above all, chemistry teachers --- will find this book full of valuable and highly usable new ideas ”

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Alan Rocke, Case  
Western Reserve  
University “ This

book artfully  
connects chemistry  
and chemistry  
education to the  
human context in  
which chemical  
science is practiced  
and the historical and  
philosophical  
background that  
illuminates that

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practice. Mansoor  
Niaz deftly weaves  
together historical  
episodes in the quest  
for scientific  
knowledge with the  
psychology of  
learning and  
philosophical  
reflections on the  
nature of scientific  
knowledge and  
method. The result is  
a compelling case for

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Historically and  
philosophically  
informed science  
Education Eddie

education. Highly  
recommended! ”

Harvey Siegel,  
University of Miami

“ Books that analyze  
the philosophy and  
history of science in  
Chemistry are quite  
rare. ‘ Chemistry  
Education and  
Contributions from

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Philosophy of  
Science ' by

Mansoor Niaz is one of the rare books on the history and philosophy of chemistry and their importance in teaching this science. The book goes through all the main concepts of chemistry, and

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analyzes the historical and philosophical developments as well as their reflections in textbooks. Closest to my heart is Chapter 6, which is devoted to the chemical bond, the glue that holds together all matter in our earth. The chapter emphasizes the revolutionary

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impact of the  
concept of the  
' covalent bond '

on the chemical  
community and the  
great novelty of the  
idea that was  
conceived 11 years  
before quantum  
mechanics was able  
to offer the  
mechanism of  
electron pairing and  
covalent bonding.

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The author goes then to describe the emergence of two rival theories that explained the nature of the chemical bond in terms of quantum mechanics; these are valence bond (VB) and molecular orbital (MO) theories. He emphasizes the importance of having rival theories and



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interpretations in  
science and its  
advancement. He  
further argues that  
this VB-MO rivalry is  
still alive and  
together the two  
conceptual frames  
serve as the tool kit  
for thinking and  
doing chemistry in  
creative manners.  
The author surveys  
chemistry textbooks

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in the light of the

how the books

preserve or not the

balance between the

two theories in

describing various

chemical

phenomena. This

Talmudic approach of

conceptual tension is

a universal

characteristic of any

branch of evolving

wisdom. As such,

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Mansoor's book

would be of great  
utility for chemistry

teachers to examine  
how can they

become more

effective teachers by

recognizing the

importance of

conceptual

tension ". Sason

Shaik Saeree K. and

Louis P. Fiedler Chair

in Chemistry Director,

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Minerva Center for  
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