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general public and the medical
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about the disease. More and*

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more people are disabled daily, despite the fact that the condition does not have to occur. In Part One of this work, experts review the research into the disease, along with treatment

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scientific enterprise is not characterized by objectivity or the scientific method, but rather controversies, alternative interpretations of data, ambiguity, and uncertainty. Although objectivity is not synonymous with truth or

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certainty, it has eclipsed other epistemic virtues and to be objective is often used as a synonym for scientific. Recent scholarship in history and philosophy of science has shown that it is not the experimental data (Baconian orgy of

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quantification) but rather the diversity / plurality in a scientific discipline that contributes toward understanding objectivity. History of science shows that objectivity and subjectivity can be considered as the two poles of a continuum and

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this dualism leads to a conflict in understanding the evolving nature of objectivity. The history of objectivity is nothing less than the history of science itself and the evolving and varying forms of objectivity does not mean that one replaced the other in a

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This book explores the relationship between the content of chemistry education and the history and philosophy of science (HPS) framework that

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*underlies such education.
It discusses the need to
present an image that
reflects how chemistry
developed and progresses.
It proposes that chemistry
should be taught the way*

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it is practiced by chemists: as a human enterprise, at the interface of scientific practice and HPS. Finally, it sets out to convince teachers to go beyond the

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traditional classroom practice and explore new teaching strategies. The importance of HPS has been recognized for the science curriculum since the middle of the 20th

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century. The need for teaching chemistry within a historical context is not difficult to understand as HPS is not far below the surface in any science classroom. A

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review of the literature shows that the traditional chemistry classroom, curricula, and textbooks while dealing with concepts such as law, theory, model,

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explanation, hypothesis, observation, evidence and idealization, generally ignore elements of the history and philosophy of science. This book proposes that the

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*conceptual understanding
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is devoted to the chemical bond, the glue that holds together all matter in our earth. The chapter emphasizes the revolutionary impact of the concept of the

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chemical community and the
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