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With its modern
emphasis on the

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molecular view of
physical
chemistry, its

wealth of
contemporary
applications, vivid
full-color
presentation, and
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media tools, the
thoroughly revised
new edition is
again the most

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modern, most
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0), plus coverage
of
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(Chapters 1-6) and
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to convey the
important
principles and
facts of inorganic
chemistry in a way
that is both

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understandable
and enjoyable to
undergraduates.

Examples help to
illustrate the
material, and key
points are
summarized at the
conclusion of each
chapter.

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Chemistry features
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explanations of the
concepts and
methods of
physical chemistry
for students who
have had a year of
calculus and a
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The basic theory
of chemistry is
presented from the

viewpoint of
academic physical
chemists, but the
many practical
applications of
physical chemistry
are integrated
throughout the
text. The problems
in the text also

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reflect a skillful
blend of theory
and practical

applications. This
text is ideally
suited for a
standard
undergraduate
physical chemistry
course taken by
chemistry,
chemical
engineering, and

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**with solutions to
problems
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solutions to the
'a' exercises,
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discussion
questions and
problems that**

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feature in the eighth edition of Atkins' Physical Chemistry. This manual offers comments and advice to aid understanding. It is intended for students and instructors alike.

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**discussion
questions and
problems**

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intended for
students and
provides helpful
comments
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and photo of how
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description of crystalline
structures, this fifth

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oxide and bilayer
graphene Elaine A.

Moore studied
chemistry as an
undergraduate at
Oxford University and
then stayed on to
complete a DPhil in
theoretical chemistry
with Peter Atkins. After
a two-year postdoctoral
position at the
University of
Southampton, she

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joined the Open
University in 1975,
becoming a lecturer in

chemistry in 1977,
senior lecturer in 1998,
and reader in 2004. She
retired in 2017 and
currently has an
honorary position at the
Open University. She
has produced OU
teaching texts in
chemistry for courses at
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written texts in
astronomy at level 2 and
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was team leader for the
production and
presentation of an Open
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She is a Fellow of the
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She was co-chair for the successful Departmental submission of an Athena Swan bronze award.

Lesley E. Smart studied chemistry at Southampton University, United Kingdom. After completing a PhD in Raman spectroscopy, she moved to a lectureship at the (then) Royal University of

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Malta. After returning to the United Kingdom, she took an SRC Fellowship to Bristol University to work on X-ray crystallography. From 1977 to 2009, she worked at the Open University chemistry department as a lecturer, senior lecturer, and Molecular Science Programme director, and she held an

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honorary senior
lectureship there until
her death in 2016. At

the Open University,
she was involved in the
production of
undergraduate courses
in inorganic and
physical chemistry and
health sciences. She
served on the Council of
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fundamental
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atoms and
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**containing them,
the electrons can
move at speeds
which represent
a substantial
fraction of the
speed of light,
and thus
relativity must be
taken into
account.**

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therefore provides the basic formalism for calculating the properties of heavy-atom systems. The purpose of this book is to provide a detailed description of the application of relativistic

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**quantum
chemical
methods and the
associated
computational
algorithms which
facilitate their
application. This
interest is fu
elled by the need
to develop
robust, yet
efficient
theoretical**

**approaches,
together with
efficient
algorithms,
which can be
applied to atoms
in the lower part
of the Periodic
Table and, more
particularly,
molecules and
molecular
entities
containing such**

atoms. Such relativistic theories and computational algorithms are an essential ingredient for the description of heavy element chemistry, becoming even more important in the case of superheavy

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approaches
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with the
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mathematical
concepts and
techniques right
where they need
them. Checklists
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at the end of
each topic add to
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reinforce the
main take-home
messages in each
section. The
coupling of the
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and groups of the
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and kinetics.**

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topics used in
subsequent
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*already know.
Throughout the
text, equations*

*are clearly
labeled and
annotated, and
detailed*

*'justification'
boxes are
provided to help
students
understand the
crucial*

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*mathematics
which underpins
physical
chemistry.*

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Chemist's toolkits
provide succinct
reminders of key
mathematical
techniques
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