

Upper Level Physics

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The new *Upper Level Physics* course is a combination of textbook, DVD-ROM and internet portal. The subject is presented in a thematic way that promotes competence and context-related learning.

The individual chapters are organized around the core areas of the study of physics:

- Mechanics
- Fields
- Vibrations and waves
- Quantum physics and the structure of material
- Relativity and astrophysics
- Thermodynamics

A separate section provides a clear summary of the most important methods used in the study of physics.

More than 120 *context building blocks* establish a reference to the world outside the physics classroom. Each chapter concludes with a systematic summary of its contents.

Upper Level Physics – Student's Book with DVD-ROM

560 pages, hardback,
numerous illustrations
130 060 35,95 €

(Cornelsen)



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Features

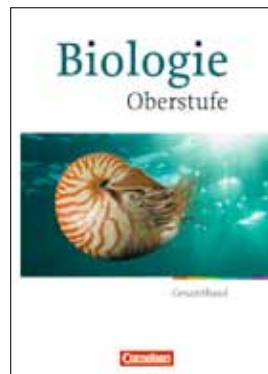
- clear structure
- concisely and clearly presented specialised knowledge
- simple texts through which experiments and materials are integrated into the learning process
- clearly presented basics
- foundation in the real world, with examples from contemporary research, technology, physiology, environment and history
- comprehensive collection of exercises with tasks for examination preparation

Subject Areas

- Atomic Structure, Classification of Elements (Periodic Table)
- Chemical Bonds
- Thermodynamics, Kinetics und Chemical Equilibrium
- Acid-Base Balance
- Redox Reactions and Electrochemistry
- Basics of Organic Chemistry
- Classification of substances and reaction mechanisms in organic chemistry
- Fossil fuels and renewable energy
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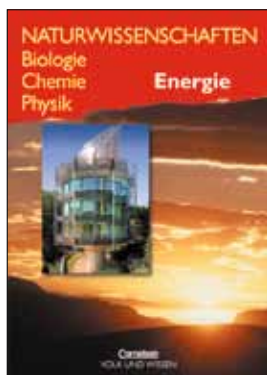
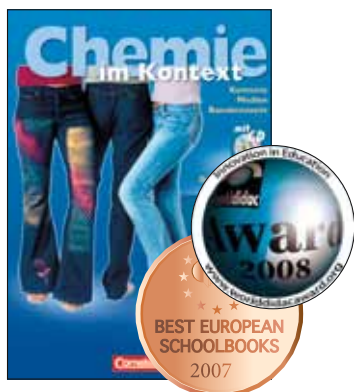
Introduction – Text – Material-Method-Practice – Competence.

- On the *Introduction* page a large photo accompanied by a detailed text introduces the topic, provides an overview of the material that follows and summarizes the knowledge relevant to the current chapter.
- The *Text* section provides a precise and well structured presentation of the target knowledge, illustrated by drawings and photos.
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