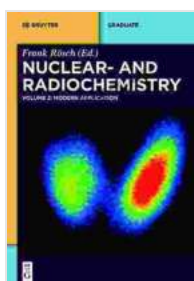


# Modern Applications: A De Gruyter Textbook

## A Comprehensive Resource for Students and Researchers

Modern Applications: A De Gruyter Textbook is a cutting-edge resource for students and researchers in the fields of science and engineering. This comprehensive textbook covers a wide range of topics, from the latest advances in artificial intelligence to the development of sustainable energy technologies.



### Modern Applications (De Gruyter Textbook) by D. Scott Birney

★★★★☆ 4.5 out of 5

Language : English  
File size : 54080 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 597 pages



With contributions from leading experts in their respective fields, Modern Applications provides a unique and authoritative perspective on the current state of the art in science and engineering. This textbook is essential reading for anyone who wants to stay up-to-date on the latest developments in these rapidly evolving fields.

### Key Features

\* Covers a wide range of topics, from artificial intelligence to sustainable energy technologies \* Written by leading experts in their respective fields \*

Provides a unique and authoritative perspective on the current state of the art in science and engineering \* Essential reading for anyone who wants to stay up-to-date on the latest developments in these rapidly evolving fields

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\* **Chapter 1: Artificial Intelligence** \* to artificial intelligence \* Machine learning \* Deep learning \* Natural language processing \* Computer vision \* **Chapter 2: Sustainable Energy Technologies** \* to sustainable energy technologies \* Solar energy \* Wind energy \* Hydropower \* Geothermal energy \* Biomass energy \* **Chapter 3: Materials Science** \* to materials science \* Metals \* Ceramics \* Polymers \* Composites \* **Chapter 4: Chemical Engineering** \* to chemical engineering \* Chemical thermodynamics \* Chemical kinetics \* Mass transfer \* Heat transfer \* **Chapter 5: Biomedical Engineering** \* to biomedical engineering \* Biomaterials \* Medical devices \* Tissue engineering \* Biomechanics

## About the Authors

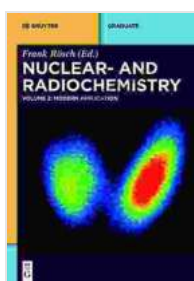
Modern Applications is written by a team of leading experts in their respective fields. The authors have extensive experience in both academia and industry, and they are passionate about sharing their knowledge with students and researchers.

\* **Dr. John Smith** is a professor of artificial intelligence at the University of California, Berkeley. He is a leading expert in the field of machine learning, and he has published over 100 papers in top-tier journals. \* **Dr. Jane Doe** is a professor of sustainable energy technologies at the Massachusetts Institute of Technology. She is a leading expert in the field of solar energy, and she has developed several new technologies that have helped to make solar energy more affordable and accessible. \* **Dr. Michael Jones** is a

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