

□ 교과목명 : 이공수학(전북대학교 김철주 교수)

■ 교과목의 개요

○ 수업목표

This lecture provides solving methods of problems and expressions of the mathematics need for chemistry and physical chemistry.

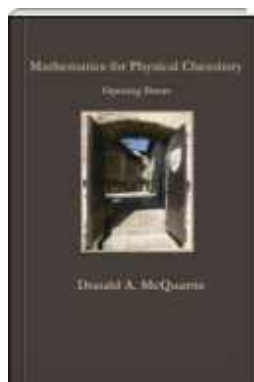
You will learn for the following topics in physical chemistry, which are

(1) Properties of functions, Differentiation and integration, Ordinary differential equations need for General Chemistry.

(2) Functions of several variables need for Thermochemistry.

(3) Solutions of wave equations, Properties of the solution of wave equation need for Quantum Chemistry.

■ 주요교재



○ 교재명 : Mathematics for Physical Chemistry

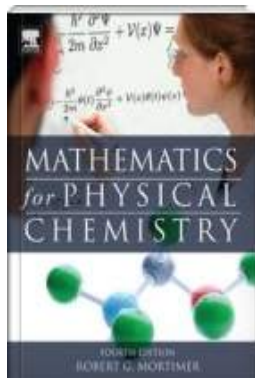
○ 저 자 : McQuarrie, Donald A.

○ 책소개

DONALD A. MCQUARRIE의 『화학수학』. 물리화학을 이해하는 데 도움을 주는 화학수학 학습서다. 물리화학에 관한 예제와 문제를 풍부하게 수록하여 학습에 도움을 주고 있다.

[출처 : 인터넷 교보문고 제공]

■ 참고문헌(1)



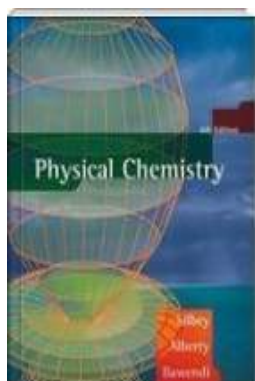
- **교재명** : Mathematics for Physical Chemistry
- **저 자** : Robert G. Mortimer

○ 책소개

Mathematics for Physical Chemistry is the ideal supplementary text for practicing chemists and students who want to sharpen their mathematics skills while enrolled in general through physical chemistry courses. This book specifically emphasizes the use of mathematics in the context of physical chemistry, as opposed to being simply a mathematics text.

[출처 : 인터넷 교보문고 제공]

■ 참고문헌(2)



- **교재명** : Physical Chemistry
- **저 자** : Silbey

○ 책소개

EVER SINCE PHYSICAL CHEMISTRY WAS FIRST PUBLISHED IN 1913 (THEN TITLED OUTLINES OF THEORETICAL CHEMISTRY, BY FREDERICK GETMAN), IT HAS REMAINED A HIGHLY EFFECTIVE AND RELEVANT LEARNING TOOL THANKS TO THE EFFORTS OF PHYSICAL CHEMISTS FROM ALL OVER THE WORLD. EACH NEW EDITION HAS BENEFITED FROM THEIR SUGGESTIONS AND EXPERT ADVICE. THE RESULT OF THIS REMARKABLE TRADITION IS NOW IN YOUR HANDS.

[출처 : 인터넷 교보문고 제공]