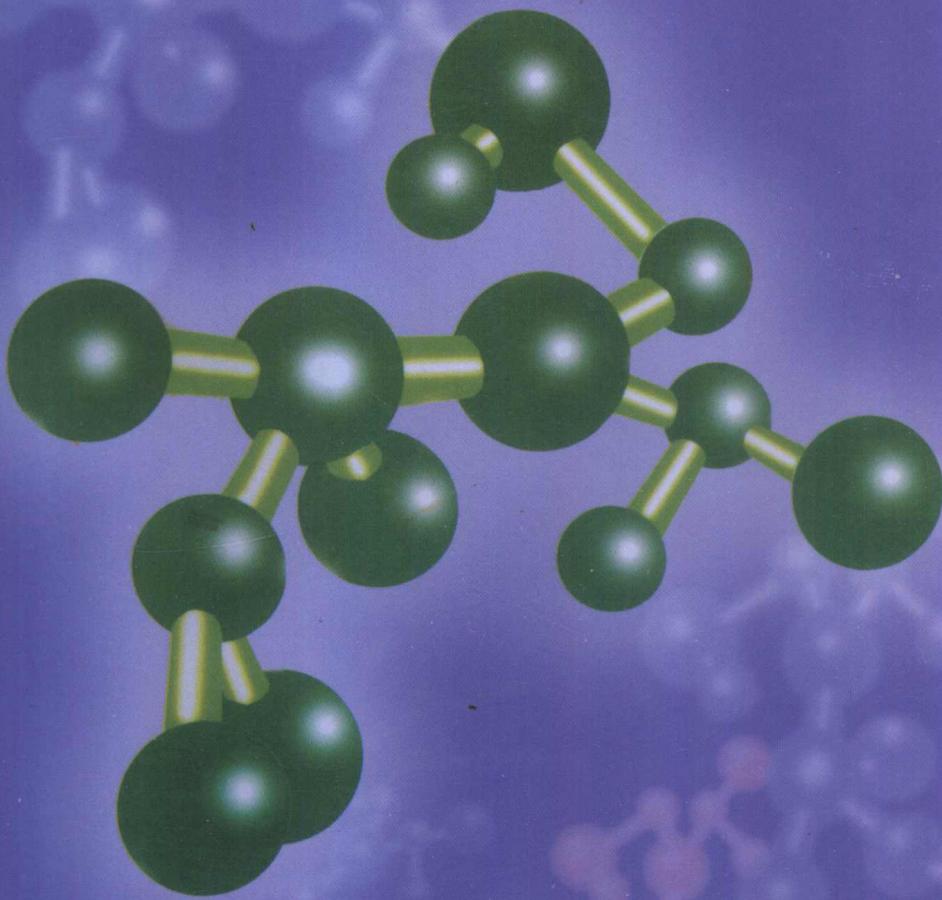




面向21世纪课程教材

# 有机化学

赵殊 廖蓉苏 鞠昭年 主编



中国林业出版社

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### 图书在版编目 (CIP) 数据

有机化学/赵殊, 廖蓉苏, 鞠昭年主编. —北京: 中国林业出版社, 2001. 7

面向 21 世纪课程教材

ISBN 7-5038-2740-8

I . 有… II . ①赵… ②廖… ③鞠… III . 有机化学-高等学校-教材 IV . 062

中国版本图书馆 CIP 数据核字 (2001) 第 02827 号

## 有机化学

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**出版** 中国林业出版社 (北京西城区刘海胡同 7 号 100009)

E-mail: cfphz@public. bta. net. cn 电话: 66184477

**发行** 新华书店北京发行所

**印刷** 北京林业大学印刷厂

**版次** 2001 年 7 月第 1 版

**印次** 2001 年 7 月第 1 次

**开本** 787mm×960mm 1/16

**印张** 25.5

**字数** 450 千字

**印数** 1~9050 册

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**定价** 29.00 元

# 前　言

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本教材是根据“高等农林院校本科化学系列课程面向 21 世纪教学内容和课程体系改革的研究与实践”项目组拟定的有机化学教学基本要求，在参加本课题教学改革的重点林业院校试用的有机化学教学大纲的基础上，重新编写的有机化学教材。可供高等林业院校林学、生物学、动物科学、木材科学等专业作为教材使用，各专业可根据需求选择教学内容，也可作为农、牧、渔等专业的教学参考书。

本教材在内容上遵循了经典内容少而精、推陈出新的原则。调整了教材结构，如将旋光异构和波谱学编排在前边，便于应用。增加了教材的深度和广度，提高了教学起点和水平。在照顾有机化学系统性的同时，注意与相关学科的交叉与渗透。增加了一些新内容，如富勒烯、有机金属化合物及与生态环境、材料科学相关的知识。教材贯穿有机化合物结构与性质的关系这条主线，通过反应机理掌握有机化合物之间的转化规律，力求能够培养学生逻辑思维能力、自学能力、分析解决问题的能力。

本教材共分 14 章。第 1、2、10、12 章及第 6 章第 3 节由东北林业大学赵殊编写，第 3、4 章由东北林业大学孙才英编写，第 5、13 章由南京林业大学鞠昭年编写，第 6 章由北京林业大学房耀仁编写，第 7、8 章由南京林业大学杨雅琴编写，第 9、11、14 章由北京林业大学廖蓉苏编写。全书由赵殊、廖蓉苏定稿，由北京林业大学杨涵贞教授主审。

在本教材的编写过程中，课题组主持人、中国农业大学朱寿珩教授给予了很大的关心与支持，中国农业大学张曙生副教授审阅了全稿，并提出了宝贵意见，在此一并表示衷心的感谢。

由于编者水平所限，书中难免有误，恳请读者予以指正。

编　者  
2001 年 5 月

# PREFACE

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This book is an Organic Chemistry teaching material newly compiled according to the basic requirements of organic chemistry teaching drafted by the task group of *research and practice of teaching contents and courses systems reform for the undergraduate chemistry series of courses facing the 21st century in the agriculture and forestry colleges and universities*, and based on the organic chemistry teaching program tried out in key forestry universities taking part in the task group. It is a 21st century textbook for specialities of forestry, biology, zoology, and wood science and so on in forestry colleges and universities. Every speciality can select the contents according to their requirements. It could also serve as a teaching reference book for the specialities of agriculture, stock raising, and fishing.

The contents of the book follows the principle of fewer but better in classic contents and weeding through the old to bring forth the new. The organization of the textbook is regulated, for example, optical isomerism and spectroscopy are arranged ahead for the convenience of application. The quality and scope of the book are increased and the starting point and level of teaching and study are improved. We give consideration to the systematicness of the book, and at the same time, pay attention to its intersection and infiltration with other disciplines. Some new contents are added, such as, fullerenes, organometallic compounds and the knowledge related to ecology, environment, and materials science. The textbook runs through the main clue of relationship of the properties with structures of the organic compounds, the patterns of transformation within compounds could be mastered through the reactions mechanisms. We have made great efforts to enable this book to cultivate the students' abilities to think logically, to study independently, and to analyse and solve problems.

The book consists of 14 chapters. Chapters 1, 2, 10, 12 and the 3rd section of Chapter 6 are compiled by Zhao Shu of Northeast Forestry University; Chapters 3 and 4, by Sun Caiying of Northeast Forestry University; Chapters 5 and 13, by Ju Zhaonian of Nanjing Forestry University; Chapter 6, by Fang Yaoren of Beijing Forestry University; Chapters 7 and 8, by Yang Yaqin of Nanjing Forestry University; Chapters 9, 11, and 14, by Liao Rongsu of Beijing Forestry University. The whole textbook is finalized by Zhao Shu and Liao Rongsu, and is examined by Yang Hanzhen, Professor of Beijing Forestry University.

We thank Zhu Shouhang, the chairman of the task group, Professor of China Agriculture University, for supporting and concerning with us very much. Also we thank Zhang Shusheng, Associate Professor of China Agriculture University, for checking and approving all the manuscripts, and making valuable suggestions.

Authors

May 2001

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