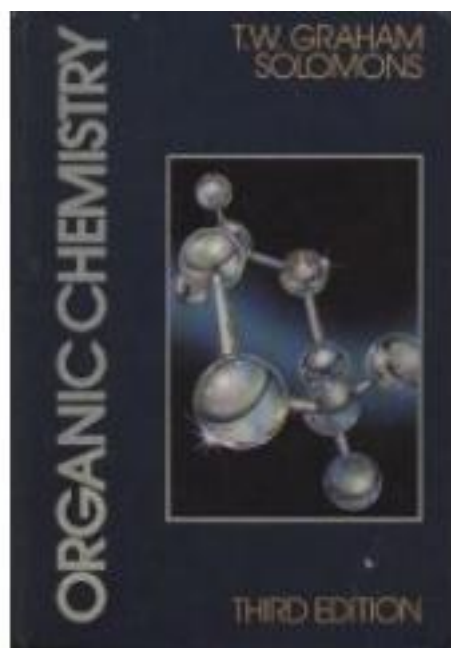


Organic Chemistry, Third Edition



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著者:

出版者:

出版时间:

装帧:

isbn:9780471870326

Book Description On the cover of this book is a Pacific yew tree, found in the ancient forests of the Pacific Northwest. The bark of the Pacific yew tree produces Taxol, found to be a highly effective drug against ovarian and breast cancer. Taxol blocks mitosis during eukaryotic cell division. The supply of Taxol from the Pacific yew tree is vanishingly small, however. A single 100-year-old tree provides only about one dose of the drug (roughly 300 mg). For this reason, as well as the spectacular molecular architecture of Taxol, synthetic organic chemists fiercely undertook efforts to synthesize it. Five total syntheses of Taxol have thus far been reported. Now, a combination of isolation of a related metabolite from European yew needles, and synthesis of Taxol from that intermediate, supply the clinical demand. This case clearly demonstrates the importance of synthesis and the use of organic chemistry. It's

just one of the many examples used in the text that will spark the interest of students and get them involved in the study of organic chemistry! --This text refers to an out of print or unavailable edition of this title. The publisher, John Wiley & Sons Study Guide, Text Bank, Computerized Test Bank, Transparencies and ChemGraphics available. --This text refers to an out of print or unavailable edition of this title. See all Editorial Reviews

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