The discovery of fluorouracil, fluorocorticoids, and fluoroquinolones has led to expanded interest in and usage of fluorine in chemistry. The first comprehensive reference dedicated to detailing the influence of fluorine on the structural properties of a molecule and on a molecule's biological behavior, *Bioorganic and Medicinal Chemistry of Fluorine* uses examples of fluorinated drugs to provide a thorough overview of the role of fluorine in pharmaceutical science and development. Covering established drugs as well as innovative and promising ideas, it includes:

- An introduction to the structural, physical, and chemical properties of fluorinated compounds and their preparations
- An examination of fluorinated analogues of natural products, fluorinated amino acids and peptides, and saccharidic derivatives
- A discussion of the inhibition of enzymes by fluorinated compounds
- An overview of existing fluorinated pharmaceuticals as well as some in development, categorized according to their therapeutic classes

Complete with references for further study, this is the premier resource on fluorine for pharmaceutical and medicinal chemists in academia and industry, researchers in organic chemistry and biochemistry, and advanced students and educators in pharmaceutical and medicinal chemistry, biochemistry, and organic chemistry.

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