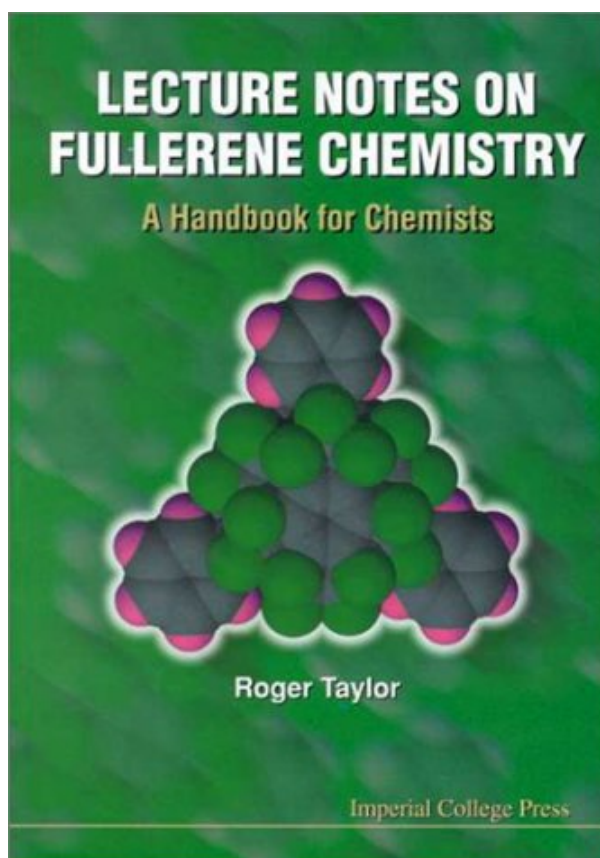


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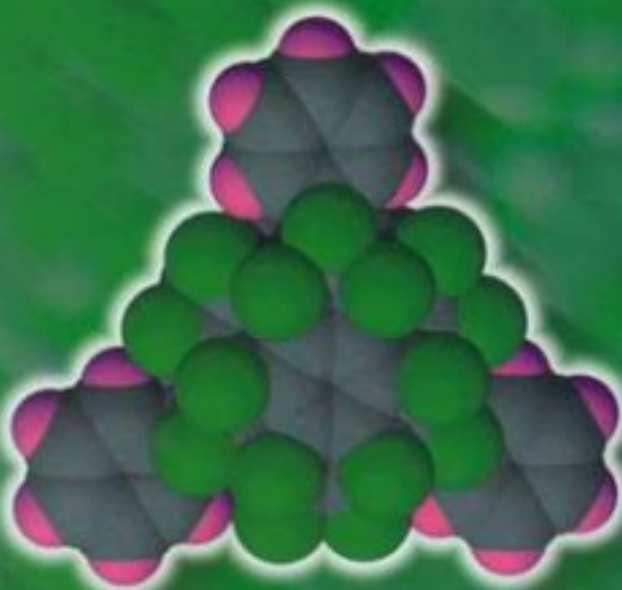


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"... this is an affordable and readable introduction to experimental fullerene chemistry, with pictures, facts and open problems to whet the appetite of those wondering where these new molecules will lead. It can be recommended to specialists and a general audience alike." *Chemistry in Britain*, 1999

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The fullerenes, hailed as one of the discoveries of the century, have created whole new fields of organic/organometallic chemistry and of physics. Together with the related nanotubes, they hold the promise of providing new materials with novel chemical and solid state properties. The cost of the basic fullerenes is now such that research into them is feasible for very many chemists. This book describes the fundamental aspects of fullerene chemistry. Following brief background on the discovery, basic fullerene nomenclature, and relevant properties (including those of endohedral fullerenes and nanotubes), there are chapters describing the rules governing the addition patterns, and each of the reaction types with representative examples. Leading references are given to key papers describing individual reactions and phenomena.

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2 of 2 people found the following review helpful.

Lecture Notes on Fullerene Chemistry

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The book is a true complement to the well-known survey of fullerene science by M. S. Dresselhaus, G. Dresselhaus and P. C. Eklund. Combined together, they give a representative picture of fullerene science before the century end. The book by Roger Taylor is a systematic and comprehensive text on fullerene chemistry that fills a gap in the fullerene literature.

The handbook is well organized - is divided into fourteen main chapters and many sub-chapters, covering

essentially all the established aspects of fullerene chemistry. After brief background on the discovery, structure, properties and nomenclature, the rules governing the addition patterns are discussed.

The remaining chapters deal with particular reaction types and systems.

Hydrogenation was the first reaction carried out with C₆₀ and its various experimental and theoretical aspects are comprehensively discussed. The following two chapters treat reductions by electron additions, reactions with electrophiles and nucleophiles.

Radical reactions are primarily described as halogenations and a special attention is paid to fluorination. Nucleophilic substitutions of fullerenes are discussed especially as ways for production of fullerenols. The next chapter deals with cycloadditions, i.e., the most frequently studied fullerene reactions. This very comprehensive survey is followed by a short report on oxidation.

The last four chapters describe selected classes of fullerene compounds rather than particular reactions. This part starts with inorganic and organometallic derivatives of fullerenes. Various polymeric structures with fullerenes then follow. Heterofullerenes are represented by borafullerenes and especially azafullerenes. The volume ends with a brief survey of the chemistry of endohedral fullerenes (though incar-fullerenes is suggested as a more systematic name).

The book has 268+xiv pages, well selected illustrations and ample references. It can serve as an excellent textbook for graduate and also undergraduate courses as well as a standard reference monograph for active researchers. The book is published by Imperial College Press and distributed

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