



Analytical Pyrolysis of Natural Organic Polymers (Techniques and Instrumentation in Analytical Chemistry)

S.C. Moldoveanu

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Analytical pyrolysis is one of the many tools utilized for the study of natural organic polymers. This book describes in three parts the methodology of analytical pyrolysis, the results of pyrolysis for a variety of biopolymers, and several practical applications of analytical pyrolysis on natural organic polymers and their composite materials. Analytical pyrolysis methodology covers two distinct subjects, the instrumentation used for pyrolysis and the analytical methods that are applied for the analysis of the pyrolysis products. A variety of pyrolytic techniques and of analytical instruments commonly coupled with pyrolysis devices are given.

The description of the results of pyrolysis for biopolymers and some chemically modified natural organic polymers is the core of the book. The main pyrolysis products of numerous compounds as well as the proposed mechanisms for their pyrolysis are described. In this part an attempt is made to present as much as possible the chemistry of the pyrolytic process of natural organic polymers.

The applications of analytical pyrolysis include topics such as polymer detection used for example in forensic science, structure elucidation of specific polymers, and identification of small molecules present in polymers (anti-oxidants, plasticizers, etc.). Also, the degradation during heating is a subject of major interest in many practical applications regarding the physical properties of polymers. The applications to composite polymeric materials are in the fields of classification of microorganisms, study of a variety of biological samples, study of fossil materials, etc. Analytical pyrolysis can also be used for obtaining information on the burning area generate pyrolysates that have complex compositions. Their analysis is important in connection with health issues, environmental problems, and taste of food and cigarettes.

Features of this book:

- Presents analytical pyrolysis as a uniform subject and not as a conglomerate of scientific papers.
- Puts together in an organized manner a large volume of available information in this specific field.
- Provides original results which address subjects with relatively scarce information in literature.
- Gives original views on subjects such as the parallel between the pyrolytic process and the ion fragmentation in mass spectrometry.
- Includes the role of pyrolysis in the burning process.

The three parts of the book are covered in 18 chapters, each divided into sections. Some sections are further divided by particular subjects. References are given for each chapter, and an effort has been made to include as much as possible from the available representative information. A few unpublished personal results are also included.

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