



## Analytical Pyrolysis of Natural Organic Polymers (Hardback)

By Serban C Moldoveanu, S C Moldoveanu

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 1998. Hardback. Book Condition: New. 244 x 168 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.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...

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