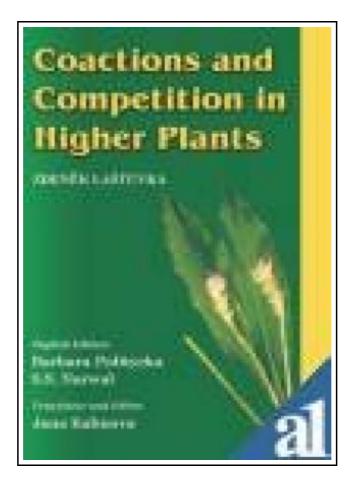
## **Coactions and Competition in Higher Plants**



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(Dorothy Daugherty)

### COACTIONS AND COMPETITION IN HIGHER PLANTS



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Scientific Publishers, 2007. Hardcover. Book Condition: New. This is the first book on `Coactions and Competition in Plants' worldwide. It was translated from Czech language, because the English is read in most countries of the world, hence, the allelopathy scientists would be able to know the phenomenon of coactions and competition in plants. The allelopathic interactions in coactions and competition in higher plants greatly influences the productivity of field crops, fruits trees and forest trees in natural and managed ecosystems. In tropical and subtropical countries, many crops are grown in crop mixtures, owing to their several advantages. Likewise, in natural forests, many tree spp. grow together, besides many herbs and shrubs grow underneath their canopy. Now due to increased human population, the farmers to meet the diverse requirements of their families, grows several crops with trees, called Agroforestry. However, little information is available about the allelopathic interactions in coactions and competition in the above agro-ecosystems. Worldwide, it is the only book available on these important aspects. This book consists of 8 Chapters viz., (i) Basic principles, (ii) Competition, (iii) Secondary compounds, (iv) Non-contact coactions, (v) Antagonistic contact coactions, (vi) Synergic contact coactions, (vii) Conclusions, (viii) References and Appendix. It is hoped, that this book will provide inspiration and in-depth knowledge of the coactions and competition in higher plants. This book will be very useful for the Researchers, Teachers and Students of Biosciences (Plant Ecology, Plant Physiology, Biochemistry, Microbiology) and Agricultural Sciences (Agronomy, Forestry etc). Contents: 1. Basic principles 1.1. Terminology 1.2. Methodical approach 1.3. Biocybernetics 1.4. Development of relationships 1.5. Competition 1.6. Allelopathy 1.7. Coactions 2. Competition 2.1. Development of competition 2.2. ompetition and its determi-nation 2.3. Modelling of competition 2.4. Density of population, autoregulation 2.5. Adaptation and response 2.6. Com-petition: examples 2.7. Competition and excretion of allelopathic substances 3....



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