



# Forest Dynamics, Growth and Yield: From Measurement to Model

*By Hans Pretzsch*

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**Forest Dynamics, Growth and Yield: From Measurement to Model** By Hans Pretzsch

The aim of this book is to improve the understanding of forest dynamics and the sustainable management of forest ecosystems. How do tree crowns, trees or entire forest stands respond to thinning in the long term? What effect do tree species mixtures and multi-layering have on the productivity and stability of trees, stands or forest enterprises? How do tree and stand growth respond to stress factors such as climate change or air pollution? Furthermore, in the event that one has acquired knowledge about the effects of thinning, mixture and stress, how can one make that knowledge applicable to decision-making in forestry practice? The experimental designs, analytical methods, general relationships and models for answering questions of this kind are the focus of this book. Given the structures dealt with, which range from plant organs to the tree, stand and enterprise levels, and the processes analysed in a time frame of days or months to decades or even centuries, this book is directed at all readers interested in trees, forest stands and forest ecosystems. This work has been compiled for students, scientists, lecturers, forest planners, forest managers, and consultants.

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### Review

From the reviews:

“This book is the latest of several dealing with forest growth and how to measure and model the growth. Pretzsch (Technical Univ. of Munich, Germany) summarizes the content used in his 14 years of teaching forestry-related topics. ... The numbered summary points included at the ends of chapters are especially helpful. This book will be valuable to researchers, practicing foresters, and graduate students in forestry and plant population ecology. ... Summing Up: Recommended. Professional and academic libraries, graduate students and above.” (M. G. Messina, *Choice*, Vol. 47 (5), January, 2010)

“This major and timely work represents the first comprehensive summary of Central European thinking on forest growth and yield ... I think this is an important and valuable reference book which I will consult many times in the future. However, those purchasing this book are likely to be the libraries of universities and research institutes apart from a few forest scientists specifically interested in the stand dynamics of temperate Europe forest systems.” (W. L. Mason, *International Forestry Review*, September, 2010)

### From the Back Cover

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