



## MODELING MIXED SPECIES FOREST STANDS

By Zhao, Dehai

Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Empirical Modeling Strategies | Actively managing mixed-species stands is becoming a worldwide trend. It is imperative to understand the ecological process of mixed-species stands for developing management decision-making tools. Few models or modeling strategies have been developed and evaluated for mixed-species stands. The first part of this book develops a principal component and cluster analysis procedure to group tree species for ecological and growth modeling. Using stem-mapped data, the second part characterizes tree spatial distributions and develops individual-based spatially explicit growth and survival models to quantify neighborhood effects in a natural temperate species-rich forest. The last part develops a multi-species density-dependent matrix growth model and individual-tree distance-independent growth and mortality models for the bottomland mixed-species hardwoods in the Lower Mississippi Alluvial Valley. The modeling strategies can help forest ecologists and managers better understand the ecological processes of mixed-species stands and develop management regimes for such stands. | Format: Paperback | Language/Sprache: english | 148 pp.

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