

CONTENTS

	Page
Preface	II
Spatial Variability of heavy metal contents in sandy forest soils <i>J. Böttcher, G. Springob & J. Utermann</i>	1
Optimal sampling strategies: a multiobjective approach <i>H.H. Burger, F. Birkenhake & V. Weber</i>	8
Soil and wheat yield variability on a renovated agricultural research station <i>D.K. Cassel, O. Wendroth & D.R. Nielsen</i>	15
Analysing and modeling spatio-temporal patterns of plant water use of an old pine stand <i>G. Wessolek & W. Riek</i>	29
Field scale heterogeneity of soil structural properties in a moraine landscape of north-east Germany <i>S. Koszinski, O. Wendroth & J. Lehfeldt</i>	39
Site specific plant production - Acquisition of input data and first practical results of site specific fertilizing <i>P. Jürschik & J. Schmerler</i>	47
Spatial variability of soil microbial and biochemical parameters across a northern and a southern exposed summit - slope - peat gradient within a typical agricultural tract of landscape in NE Germany <i>S. Wirth</i>	58
Rapid determination of macroporosity-affected hydraulic conductivity from field infiltration measurements <i>K. Bohne, G. Wessolek & R. Haverkamp</i>	66
Internal and external heterogeneity of soil structure derived from X-ray computed tomography investigations of soil cores <i>H. Rogasik</i>	78
Estimation of water discharge out of the root zone from soil water content and tension measurements in sandy soils in north-east Germany <i>U. Schindler</i>	89
Appendix: List and adresses of participants	101