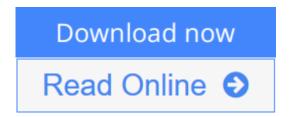


Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results

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High yields and environmental control in crop farming call for precise adaptations to local growing conditions. Treating large fields in a uniform way by high capacity machinery cannot be regarded as a sustainable method for many situations. Because differences existing within single fields must be considered. The transition from former field work carried out manually or by small implements to present-day high-capacity machinery caused that the farmers lost the immediate and close contact with soils and crops. However, modern sensing and controlling technology can make up for this deficit. High tech methods that include proximal sensing and signals from satellites can provide for controls that allow adjusting farming operations to small fractions of one ha and sometimes even down to some m2, hence in a site-specific mode. This applies to operations for soil cultivation, sowing, fertilizing and plant protection. This book deals with site-specific concepts, applications and results.



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Review

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"This well-designed, well-written book covers appropriate topics related to production crop farming anywhere in the world. ... This book can be used in a beginning and/or intermediate precision farming course. It can also serve as a reference in a more comprehensive course or series of courses on precision crop farming. The material presented will enhance students' knowledge of specific production practices. Summing Up: Highly recommended. Upper-division undergraduates, graduate students, researchers/faculty, and professionals/practitioners." (M. K. Swan, Choice, Vol. 51 (8), April, 2014)

From the Back Cover

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However, modern sensing and controlling technology can make up for this deficit. High tech methods that include proximal sensing and signals from satellites can provide for controls that allow adjusting farming operations to small fractions of one ha and sometimes even down to some m², hence in a site-specific mode. This applies to operations for soil cultivation, sowing, fertilizing and plant protection.

This book deals with concepts, applications and results, and has an interdisciplinary approach that pervades all chapters.

About the Author

The editor and main author – *Hermann J. Heege* – is Professor Emeritus of the University of Kiel and was formerly head of its Department of Agricultural Systems Engineering. He conceived and initiated the worldwide known concept of the "N Sensor".

The chapter about weed control is from *Roland Gerhards*, Professor of the University of Stuttgart-Hohenheim.

Contributions about the use of plant-fluorescence are from *Eiko Thiessen*, Postdoctoral Research Associate in the Department of Agricultural Systems Engineering of the University of Kiel.

Markus Demmel from the Bavarian State Research Center for Agriculture in Freising-Weihenstephan and its section head for System Engineering in Crop Farming is author of the chapter about yield sensing.

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