



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

From Springer

Download now

Read Online ➔

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

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.

↓ [Download Precision in Crop Farming: Site Specific Concepts ...pdf](#)

📄 [Read Online Precision in Crop Farming: Site Specific Concept ...pdf](#)

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

From Springer

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

From Springer

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.

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

- Sales Rank: #3298713 in Books
- Published on: 2013-07-04
- Original language: English
- Number of items: 1
- Dimensions: 9.40" h x 1.00" w x 6.50" l, 1.90 pounds
- Binding: Hardcover
- 356 pages

 [Download Precision in Crop Farming: Site Specific Concepts ...pdf](#)

 [Read Online Precision in Crop Farming: Site Specific Concept ...pdf](#)

Editorial Review

Review

From the reviews:

“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

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 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-Weißenstephan and its section head for System Engineering in Crop Farming is author of the chapter about yield sensing.**

Users Review

From reader reviews:

Raymond Albanese:

In this 21st hundred years, people become competitive in most way. By being competitive today, people have do something to make them survives, being in the middle of typically the crowded place and notice by surrounding. One thing that at times many people have underestimated the item for a while is reading. Yep, by reading a publication your ability to survive boost then having chance to endure than other is high. In your case who want to start reading a book, we give you this specific Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results book as basic and daily reading e-book. Why, because this book is usually more than just a book.

Lois Huseby:

Here thing why this specific Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results are different and trusted to be yours. First of all reading through a book is good but it depends in the content from it which is the content is as tasty as food or not. Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results giving you information deeper as different ways, you can find any publication out there but there is no reserve that similar with Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results. It gives you thrill looking at journey, its open up your eyes about the thing which happened in the world which is probably can be happened around you. You can bring everywhere like in park your car, café, or even in your means home by train. When you are having difficulties in bringing the printed book maybe the form of Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results in e-book can be your choice.

Mark Whitten:

This book untitled Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results to be one of several books in which best seller in this year, this is because when you read this publication you can get a lot of benefit on it. You will easily to buy this particular book in the book retail store or you can order it by way of online. The publisher with this book sells the e-book too. It makes you easier to read this book, as you can read this book in your Touch screen phone. So there is no reason to your account to past this guide from your list.

Margaret Padua:

Reading a book tends to be new life style on this era globalization. With reading through you can get a lot of information that will give you benefit in your life. Using book everyone in this world could share their idea. Publications can also inspire a lot of people. Plenty of author can inspire their particular reader with their story or even their experience. Not only situation that share in the ebooks. But also they write about advantage about something that you need example. How to get the good score toefl, or how to teach children, there are many kinds of book which exist now. The authors on earth always try to improve their ability in

writing, they also doing some investigation before they write to the book. One of them is this Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results.

Download and Read Online Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer #QYGIR2W4ZOD

Read Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer for online ebook

Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer books to read online.

Online Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer ebook PDF download

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

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

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

QYGIR2W4ZOD: Precision in Crop Farming: Site Specific Concepts and Sensing Methods: Applications and Results From Springer