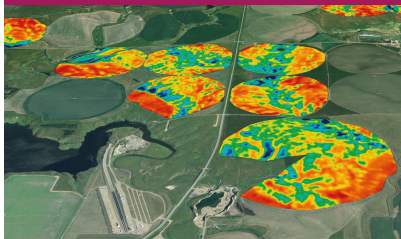


Precision agriculture for sustainability

Edited by Dr John Stafford, Silsoe Solutions, UK



burleigh dodds
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TVK - Agronomy & crop production,
RBGB - Soil science, sedimentology,
TVD - Agricultural engineering &
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New title information

Precision agriculture for sustainability

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Endorsement:

"Congratulations to the authors for putting together a comprehensive collection of key themes in precision agriculture. When appropriately augmented with local material, specific to the country/production system of relevance, this text is a very valuable, foundational learning tool. First principles can only go so far. In a rapidly evolving sector, a survey of the latest developments in these key areas is a must for students, teachers and researchers alike."

Dr. B.A. Stewart, Director Dryland Agriculture Institute and Distinguished Professor of Agriculture, West Texas A&M University, USA

Description:

Precision agriculture is based on the ability to identify inter and intra-field variability and to use this information for more targeted crop management. By using resources more efficiently, precision agriculture can make agriculture more productive and sustainable. This volume reviews the key elements of and advances in precision agriculture technology and applications.

Part 1 looks at monitoring techniques, including proximal soil and crop sensors and remote sensing technologies. The book then goes on to discuss how this information is processed to identify management zones and input targets as well as the delivery mechanisms required such as variable rate application and targeted spray technologies. The final part of the book surveys the wide range of applications of precision agriculture, from controlled traffic farming to site-specific nutrient and water management.

With its distinguished editor and international team of subject experts, this will be a standard reference for crop scientists and agronomists as well as all those concerned with improving the efficiency and sustainability of agriculture.

Key features:

- Comprehensive review of key technologies in precision agriculture, from proximal and remote sensing to decision support systems and variable rate technologies
- Surveys key applications of precision agriculture from controlled traffic farming to site-specific nutrient and water management
- Includes discussion of the economics of precision agriculture

Audience:

Crop scientists and agronomists; crop growers; companies involved in precision agriculture technologies; government agencies supporting agriculture

Editor details:

Formerly a scientist at the internationally-renowned Silsoe Research Institute, Dr John Stafford is well known as a leader in precision agriculture technologies. He is a Fellow of the Institution of Agricultural Engineers, Co-Editor of the journal *Precision Agriculture* and past President of the International Society of Precision Agriculture (ISPA).

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