

BURLEIGH DODDS SCIENCE PUBLISHING

Delivering knowledge for the global scientific community

climate•SMART•publishing
IN AGRICULTURAL SCIENCE

2016 PUBLISHING PROGRAMME



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SCIENCE PUBLISHING

The team at Burleigh Dodds

Burleigh Dodds Science (BDS) Publishing is a new company founded by Rob Burleigh and Francis Dodds, formerly of the award winning Woodhead Publishing (WP) team. WP built up one of the world's leading lists in food science, widely admired by researchers and the publishing industry for quality and customer focus.



Rob Burleigh
Managing Director

"There can be few more important challenges than feeding the world's growing population. We will be bringing together expertise and experience from across the science community to ensure their work is published in an innovative and ground breaking way."



Francis Dodds
Editorial Director

"I am really excited to be bringing our unique publishing format to this new business. We will focus our publishing model on exacting customer research and develop our products, in digital and print formats, to deliver to researchers in agricultural science the information they want when they want it."



Jenny Wheeler
Content
Delivery
Manager



John Parsons
Sales Director
Publishing
Consultant



**Martin
Woodhead**
Director
and Chairman

One of the world's greatest scientific challenges



Feeding the world's population through research in agricultural science

The Food and Agriculture Organisation (FAO) has predicted a potential 60% increase in the demand for food by 2050 as the population reaches 9 billion.

Burleigh Dodds Science Publishing is a new independent publisher and its work will help researchers in agricultural science address how to feed a growing population in the face of climate change and increasing competition for land, water and other resources.

Through our publications we will help researchers identify key issues and trends and find their way more quickly to the research most useful to them, allowing them to plan their own research programmes and link up to other research centres to collaborate more effectively.

What others are saying about Wheat...

'With their breadth of coverage, distinguished editor and the international expertise of the contributing authors, these two volumes promise to be a standard reference for wheat scientists around the world.' **Dr Sanjaya Rajaram, Winner of the 2014 World Food Prize and Former Director of the Global Wheat Program at The International Wheat Maize and Wheat Improvement Center (CIMMYT)**

'With their range of topics and authors, these volumes promise to be a standard reference for wheat scientists.' **Professor Rudy Rabbinge, Emeritus Professor of Sustainable Development and Food Security, Wageningen University, The Netherlands; also formerly the Consultative Group on International Agricultural Research (CGIAR) and the Alliance for a Green Revolution in Africa (AGRA)**



climate•SMART•**publishing**
IN AGRICULTURAL SCIENCE



What is 'climate-smart-publishing' and how is Burleigh Dodds Science Publishing achieving it?

Let's start with 'climate-smart'. It is widely recognised that agriculture is a significant contributor to global warming and climate change. It has been estimated that agriculture is responsible for 10-12% of greenhouse gas emissions. This figure rises as high as 24% if forestry and other land use is included, taking into account such factors as deforestation to clear land for more crops and livestock.

Agriculture needs to reduce its environmental impact and adapt to current climate change whilst still feeding a growing population i.e. become more 'climate-smart'. Burleigh Dodds Science Publishing is playing its part in achieving this by bringing together key research on making the production of the world's most important crops and livestock products more sustainable. Our aim is to build a foundation of knowledge on which researchers can build to meet the challenge of climate-smart agriculture.

So – on to 'smart-publishing'. Based on extensive research, our publishing programme specifically targets the challenge of climate-smart agriculture. We are building a database of review chapters, each written by a leading expert, which systematically covers both the major crops and livestock products and, at the same time, each step in the value chain for their production, from breeding through to harvest. Using the latest technology to manage this wealth of material, we have rapidly built up a major publishing programme which we plan to publish in a range of formats to suit our customers, whether books or individual chapters, or in print or electronic formats.

In these ways we are using 'smart-publishing' to help achieve 'climate-smart' agriculture.

Experience



Customer research is the foundation of all that we do at Burleigh Dodds.

Our experience tells us that delivering content in print or electronic form has to provide the reader with the information they want and when they want it. Customer research is an integral part of our commissioning process and leads the development of our products and services.

Engagement



Engagement with our customers and our authors is key to success.

We have developed a commissioning process that ensures we provide support for editors and authors. We are responsible for inviting, contracting and liaising with the authors and provide an online manuscript submission system, ScholarOne™ allowing them to engage with us at all times.

Innovation



Burleigh Dodds is built on a reputation of innovation.

Whether you are a reader, an editor or an author, we provide the best quality service, product and user experience.

Our experience has allowed us to develop an innovative methodology for successful publishing, underpinned by our desire to always put the customer first.

2016 publishing programme

CROPS



Achieving sustainable cultivation of apples - Vol 1
Physiology, breeding, pests and diseases
 Editor Dr Kate Evans
 Washington State University, USA
 ISBN - print 978-1-78676-032-6
 ISBN - ePub 978-1-78676-034-0
 ISBN - ePDF 978-1-78676-035-7
 Pages 320
 Pub. Date October 2016
 Price £150/\$225/€195

This book reviews our understanding of tree and fruit physiology and how it can be used in breeding better varieties. It also discusses pests and diseases and ways they can be prevented or controlled to make cultivation more productive.



Achieving sustainable cultivation of apples - Vol 2
Cultivation techniques and sustainability
 Editor Dr Kate Evans
 Washington State University, USA
 ISBN - print 978-1-78676-036-4
 ISBN - ePub 978-1-78676-038-8
 ISBN - ePDF 978-1-78676-039-5
 Pages 280
 Pub. Date October 2016
 Price £130/\$195/€170

Volume 2 discusses current best practice and improvements in cultivation techniques from tree training and pruning to post-harvest handling and storage. It also considers wider issues such as the environmental impact of apple cultivation.



Achieving sustainable cultivation of cassava - Vol 1
Cultivation techniques
 Editor Dr Clair Hershey
 International Center for Tropical Agriculture (CIAT), Colombia
 ISBN - print 978-1-78676-000-5
 ISBN - ePub 978-1-78676-003-6
 ISBN - ePDF 978-1-78676-002-9
 Pages 360
 Pub. Date August 2016
 Price £170/\$255/€220

This collection begins by reviewing the current state of cassava cultivation, before going on to review the range of techniques enabling sustainable intensification, from seed systems management to intercropping and post-harvest management.



Achieving sustainable cultivation of cassava - Vol 2
Genetics, breeding, pests and diseases
 Editor Dr Clair Hershey
 International Center for Tropical Agriculture (CIAT), Colombia
 ISBN - print 978-1-78676-004-3
 ISBN - ePub 978-1-78676-006-7
 ISBN - ePDF 978-1-78676-007-4
 Pages 320
 Pub. Date October 2016
 Price £150/\$225/€195

Volume 2 reviews genetic resources and breeding techniques as well as their use to produce varieties with traits such as enhanced resistance to biotic and abiotic stresses. It also discusses key pests and diseases and their management in making cultivation more efficient and sustainable.



Achieving sustainable cultivation of maize - Vol 1
From improved varieties to local applications
 Editor Dr Dave Watson
 CGIAR Maize Research Program Manager, CIMMYT, Mexico
 ISBN - print 978-1-78676-008-1
 ISBN - ePub 978-1-78676-010-4
 ISBN - ePDF 978-1-78676-011-1
 Pages 500
 Pub. Date August 2016
 Price £240/\$360/€210

This volume focuses on breeding new varieties with desirable traits such as drought tolerance and improved nutritional value as well as how such innovations can be successfully deployed in the developing world.



Achieving sustainable cultivation of maize - Vol 2
Cultivation techniques, pest and disease control
 Editor Dr Dave Watson
 CGIAR Maize Research Program Manager, CIMMYT, Mexico
 ISBN - print 978-1-78676-012-8
 ISBN - ePub 978-1-78676-014-2
 ISBN - ePDF 978-1-78676-015-9
 Pages 500
 Pub. Date August 2016
 Price £240/\$360/€210

Volume 2 covers methods for improving maize cultivation, from seed selection to nutrition, irrigation and techniques such as intercropping. It also reviews research on key pests and diseases and methods for their control in making cultivation more efficient and sustainable.



Achieving sustainable cultivation of rice - Vol 1
Breeding for higher yield and quality
 Editor Prof. Takuji Sasaki
 Tokyo University of Agriculture, Japan
 ISBN - print 978-1-78676-024-1
 ISBN - ePub 978-1-78676-026-5
 ISBN - ePDF 978-1-78676-027-2
 Pages 320
 Pub. Date September 2016
 Price £150/\$225/€195

This collection reviews advances in breeding techniques as well as improving traits such as flood or drought resistance. It also discusses advances in understanding the nutritional role of rice and ways this can be enhanced to feed a growing population.



Achieving sustainable cultivation of rice - Vol 2
Cultivation techniques, pest and disease control
 Editor Prof. Takuji Sasaki
 Tokyo University of Agriculture, Japan
 ISBN - print 978-1-78676-012-8
 ISBN - ePub 978-1-78676-014-2
 ISBN - ePDF 978-1-78676-015-9
 Pages 400
 Pub. Date October 2016
 Price £190/\$285/€245

Volume 2 reviews ways of improving cultivation of rice, from planting to soil management, nutrition and irrigation as well as techniques such as integrated crop management. It also discusses key pests and diseases and methods for their control in making cultivation more productive and sustainable.



Achieving sustainable cultivation of tomatoes

Editors Dr. Avtar Mattoo, ARS-USDA, USA & Prof. Avtar Handa, Purdue University, USA

ISBN - print 978-1-78676-040-1
ISBN - ePub 978-1-78676-042-5
ISBN - ePDF 978-1-78676-043-2
Pages 460
Pub. Date August 2016
Price £220/\$330/€285

This book reviews key developments in tomato breeding, including developing improved varieties with desirable traits such as drought or pest resistance. It also discusses ways of improving cultivation techniques as well as pests, diseases and their control.



Achieving sustainable cultivation of wheat - Vol 1 Breeding, quality traits, pests and diseases

Editor Prof. Peter Langridge
The University of Adelaide, Australia

ISBN - print 978-1-78676-016-6
ISBN - ePub 978-1-78676-018-0
ISBN - ePDF 978-1-78676-019-7
Pages 500
Pub. Date August 2016
Price £240/\$360/€310

This book reviews advances in breeding techniques as well as their application to produce drought-resistant and other improved varieties. It also discusses wheat nutritional quality. Finally it reviews developments such as disease-resistant varieties and other techniques to combat pests and diseases.



Achieving sustainable cultivation of wheat - Vol 2 Cultivation techniques

Editor Prof. Peter Langridge
The University of Adelaide, Australia

ISBN - print 978-1-78676-020-3
ISBN - ePub 978-1-78676-022-7
ISBN - ePDF 978-1-78676-023-4
Pages 380
Pub. Date October 2016
Price £180/\$270/€235

Volume 2 discusses ways of improving cultivation from variety selection to post-harvest storage. It reviews trends in integrated crop management, sustainable intensification and organic cultivation before concluding by looking at ways of supporting smallholders in the developing world.

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229 x 152mm/6 x 9 ins

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NB. All information is subject to change

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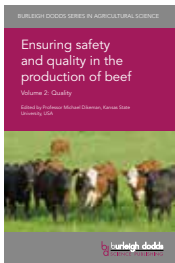


Ensuring safety and quality in the production of beef - Vol 1 Safety

Editors Prof. Gary Acuff, Texas A&M University, USA, & Prof. James Dickson, Iowa State University, USA

ISBN - print 978-1-78676-056-2
ISBN - ePub 978-1-78676-058-6
ISBN - ePDF 978-1-78676-059-3
Pages 300
Pub. Date September 2016
Price £140/\$210/€180

Volume 1 looks at key research trends in ensuring safe beef production, both on the farm and during slaughter. These include current research on pathogens in beef, risk assessment and detection as well as food safety management.

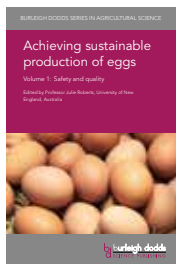


Ensuring safety and quality in the production of beef - Vol 2 Quality

Editor Emeritus Prof. Michael Dikeman
Kansas State University, USA

ISBN - print 978-1-78676-060-9
ISBN - ePub 978-1-78676-062-3
ISBN - ePDF 978-1-78676-063-0
Pages 400
Pub. Date October 2016
Price £190/\$285/€245

Volume 2 reviews developments related to quality, starting with the way breeding and growth affect meat quality. The book then discusses cattle nutrition and management before concluding with an assessment of factors determining individual quality traits such as colour and flavour.

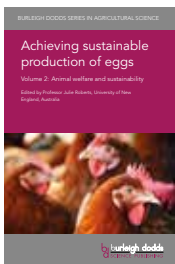


Achieving sustainable production of eggs - Vol 1 Safety and quality

Editor Prof. Julie Roberts
University of New England, Australia

ISBN - print 978-1-78676-076-0
ISBN - ePub 978-1-78676-078-4
ISBN - ePDF 978-1-78676-079-1
Pages 400
Pub. Date September 2016
Price £190/\$285/€245

This collection begins by looking at egg composition and chemistry. This provides a foundation for discussing pathogenic contamination of eggs and methods for its prevention, detection and control. The book concludes by assessing factors affecting egg appearance, shelf-life, nutritional value and other quality traits.



Achieving sustainable production of eggs - Vol 2 Animal welfare and sustainability

Editor Prof. Julie Roberts
University of New England, Australia

ISBN - print 978-1-78676-080-7
ISBN - ePub 978-1-78676-082-1
ISBN - ePDF 978-1-78676-083-8
Pages 280
Pub. Date August 2016
Price £130/\$195/€170

Welfare and sustainability are now major issues in egg production. This book reviews nutrition and other aspects of husbandry affecting laying hens as well as the environmental impact of egg production and how it can be made more sustainable.

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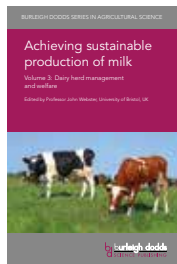
Achieving sustainable production of milk - Vol 1
Milk composition, genetics and breeding
 Editor Dr Nico van Belzen
 International Dairy Federation (IDF), Belgium
 ISBN - print 978-1-78676-044-9
 ISBN- ePub 978-1-78676-046-3
 ISBN - ePDF 978-1-78676-047-0
 Pages 340
 Pub. Date September 2016
 Price £160/\$240/€210

This book provides a detailed review of current research on key components and quality traits of milk as well as ways of measuring milk quality. It then discusses genetic factors affecting these traits and how they can be used to improve breeding of dairy cows.



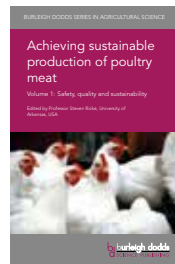
Achieving sustainable production of milk - Vol 2
Safety, quality and sustainability
 Editor Dr Nico van Belzen
 International Dairy Federation (IDF), Belgium
 ISBN - print 978-1-78676-048-7
 ISBN- ePub 978-1-78676-050-0
 ISBN - ePDF 978-1-78676-051-7
 Pages 480
 Pub. Date October 2016
 Price £230/\$345/€300

Safety remains a key issue for the dairy industry. This book reviews current research on understanding and managing pathogens in dairy farms. It also discusses more recent concerns about the environmental impact of dairy farming and ways it can be made more sustainable, including in developing countries.



Achieving sustainable production of milk - Vol 3
Dairy herd management and welfare
 Editor Emeritus Prof. John Webster
 University of Bristol, UK
 ISBN - print 978-1-78676-052-4
 ISBN- ePub 978-1-78676-054-8
 ISBN - ePDF 978-1-78676-055-5
 Pages 540
 Pub. Date September 2016
 Price £260/\$390/€340

Animal health and welfare are of major importance in dairy farming. This collection looks at the key issues affecting dairy herd welfare as well as ways of optimising dairy cattle nutrition. It also reviews ways of detecting, preventing and managing diseases affecting dairy cattle.



Achieving sustainable production of poultry meat - Vol 1
Safety, quality and sustainability
 Editor Prof. Steven Ricke
 University of Arkansas, USA
 ISBN - print 978-1-78676-064-7
 ISBN- ePub 978-1-78676-066-1
 ISBN - ePDF 978-1-78676-067-8
 Pages 520
 Pub. Date September 2016
 Price £250/\$375/€325

Poultry production faces many challenges. This collection starts by reviewing safety, including detection, prevention and control of zoonoses in poultry flocks. It also discusses key aspects of quality such as meat flavour as well wider issues such as the environmental impact of poultry production.



Achieving sustainable production of poultry meat - Vol 2
Breeding and nutrition
 Editor Prof. Todd Applegate
 University of Georgia, USA
 ISBN - print 978-1-78676-068-5
 ISBN- ePub 978-1-78676-070-8
 ISBN - ePDF 978-1-78676-071-5
 Pages 340
 Pub. Date November 2016
 Price £160/\$240/€210

There have been significant advances in poultry breeding and nutrition. This book discusses key developments such as marker-assisted breeding and improvements in poultry feed such as the use of enzymes to optimise nutritional efficiency.



Achieving sustainable production of poultry meat - Vol 3
Health and welfare
 Editor Prof. Todd Applegate
 University of Georgia, USA
 ISBN - print 978-1-78676-072-2
 ISBN- ePub 978-1-78676-074-6
 ISBN - ePDF 978-1-78676-075-3
 Pages 360
 Pub. Date November 2016
 Price £170/\$255/€220

Health and welfare are major issues in poultry production. This collection reviews our understanding of bacterial, viral and other diseases affecting poultry and their effective management. It also discusses ways of managing poultry flocks to optimise their welfare from hatching to slaughter.



Achieving sustainable production of sheep
 Editor Prof. Johan Greyling
 University of the Free State, South Africa
 ISBN - print 978-1-78676-084-5
 ISBN- ePub 978-1-78676-086-9
 ISBN - ePDF 978-1-78676-087-6
 Pages 480
 Pub. Date September 2016
 Price £230/\$345/€300

Sheep have long been a feature of farming. This collection reviews the latest research on issues such as meat quality, genetics and breeding. It also discusses animal nutrition, health and welfare as well as ways of improving the sustainability of sheep production.

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Forthcoming titles:

CROPS

Achieving sustainable cultivation of bananas - Volumes 1 & 2

Prof. Gert Kema, Wageningen University, The Netherlands & Prof. André Drenth, University of Queensland, Australia

Achieving sustainable cultivation of coffee - Volume 1

Dr Philippe Lashermes, Institut de Recherche pour le Développement (IRD), France

Achieving sustainable cultivation of grain legumes - Volumes 1 & 2

Dr Shoba Sivasankar et al, CGIAR Research Program on Grain Legumes, ICRIAT, India

Achieving sustainable cultivation of mangoes

Professor Víctor Galán Saúco, Instituto Canario de Investigaciones Agrarias (ICIA), Spain & Dr Ping Lu, Research Institute for the Environment and Livelihoods at Charles Darwin University, Australia

Achieving sustainable cultivation of oil palm - Volumes 1 & 2

Prof. Alain Rival, Center for International Cooperation in Agricultural Research for Development (CIRAD), France

Achieving sustainable cultivation of potatoes - Volume 1

Prof. Gefu Wang-Pruski, Dalhousie University, Canada

Achieving sustainable cultivation of potatoes - Volume 2

Dr Stuart Wale, Potato Dynamics Ltd, UK

Achieving sustainable cultivation of sorghum - Volumes 1 & 2

Prof. Bill Rooney, Texas A&M University, USA

Achieving sustainable cultivation of soybeans - Volumes 1 & 2

Professor Henry Nguyen, University of Missouri, USA.

Global Tea Science

Dr V. S. Sharma, Formerly UPASI Tea Research Institute, India & Dr M. T. Kumudini Gunasekare, Coordinating Secretariat for Science Technology and Innovation (COSTI), Sri Lanka

Achieving sustainable cultivation of sugarcane - Volumes 1 & 2

Prof. Philippe Rott, University of Florida, USA

Achieving sustainable cultivation of cocoa - Volumes 1 & 2

Prof. Pathmanathan Umaharan, Cocoa Research Centre - The Univ. of the West Indies, Trinidad and Tobago

Integrated weed management

Emeritus Prof. Rob Zimdahl, Colorado State University, USA

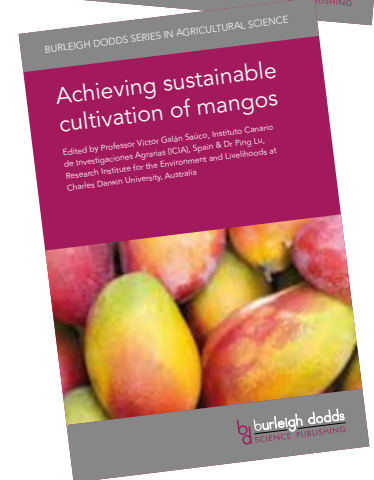
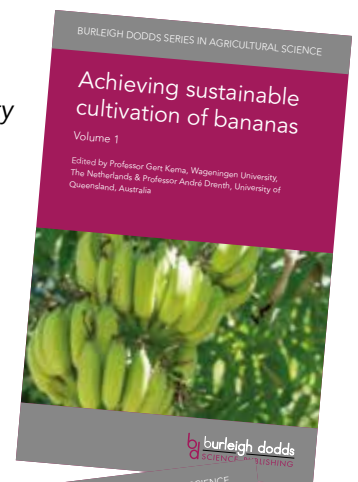
LIVESTOCK

Achieving sustainable production of pig meat - Volume 1

Prof. Alan Mathew, Purdue University, USA

Achieving sustainable production of pig meat - Volume 2

Prof. Julian Wiseman, University of Nottingham, UK



What others are saying about Grain Legumes...

'This publication looks like it could be a landmark publication - to mark the UN's "International Year of Pulses." **Professor Kadambot Siddique, University of Western Australia**

What others are saying about Maize...

'This publication promises to be a path-breaking contribution to agricultural research and development.' **Professor Mankombu (M. S.) Swaminathan, Recipient of the first World Food Prize in 1987 and listed by Time magazine as one of the 20 most influential Asian people of the twentieth century**



What others are saying about Beef...

'These volumes promise to be a valuable resource for the animal science research community.' **Professor John Kennelly, University of Alberta, Canada; also President of the Global Confederation of Higher Education Associations for Agriculture and the Life Sciences (GCHERA)**



Distribution and representation

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Sales Office Contact

Jenny Wheeler – BDS Publishing
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Sales Office Contact

Caslon Business Development Inc.
1518 Walnut Street, suite 900
Philadelphia, PA 19102, USA
info@caslonconsulting.com
+1 215-928-9112

REPRESENTATIVES AND TERRITORIES COVERED

Mare Nostrum (covering Western Europe reps below)

Frauke Feldmann

(Austria, Germany, Switzerland)

frauкеfeldmann@mare-nostrum.co.uk

+49 30 311 70374

Katie Machin

(Benelux, France)

katiemachin@mare-nostrum.co.uk

+44 (0) 1423 562232

Francesca Pollard

(Italy)

francescapollard@mare-nostrum.co.uk

+44 (0) 1423 562232

Marek Lewinson

(Eastern Europe)

radek@mareklewinson.com

+420 602 294 014

Avicenna Partnership Ltd

(Europe/Middle East)

avicennabk@gmail.com

+44 7802 244457

claire_degruchy@yahoo.co.uk

+44 771 887843

The White Partnership

(India/Pakistan & Asia exc. China)

andrew@thewhitepartnership.org.uk

+44 (0) 7973 176046

Ian Taylor Associates

(China)

ian@iantaylorassociates.com

Africa Connection

(Africa)

guy.simpson@africaconnection.co.uk

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What others are saying about Eggs...

'The proposed content of the book is excellent - an outstanding and comprehensive compilation of current knowledge by the world's foremost experts, on a topic that is highly relevant. This will be a must-have reference resource for egg producers, poultry scientists, food scientists, government regulatory agencies, and students. Congratulations - this is a major scholarly contribution to your colleagues and peers everywhere.' **Emeritus Professor Robert F. Wideman, Center of Excellence for Poultry Science, University of Arkansas, USA**



Contact Us

Burleigh Dodds Science Publishing Limited
82 High Street
Sawston
Cambridge CB22 3HJ UK

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