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**Wiley 0470136723**

# Mathematics for the Green Industry: Essential Calculations Manual

Model: 0470136723 | Brand: Wiley

## INTRODUCTION

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This manual serves as a comprehensive guide to the application of mathematical principles within the Green Industry. It is designed for both students and professionals, providing detailed explanations and practical calculations necessary for effective, safe, and economical management of various Green Industry operations. The content covers a wide range of topics, from fundamental area and volume determinations to complex applications of fertilizers, pesticides, and growth regulators, as well as cost estimation for design and installation projects.

## NAVIGATING THE CONTENT

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The book is structured to facilitate learning and practical application. Each chapter addresses specific mathematical concepts and their relevance to different sectors of the Green Industry. Readers are encouraged to work through the provided computations to reinforce understanding.

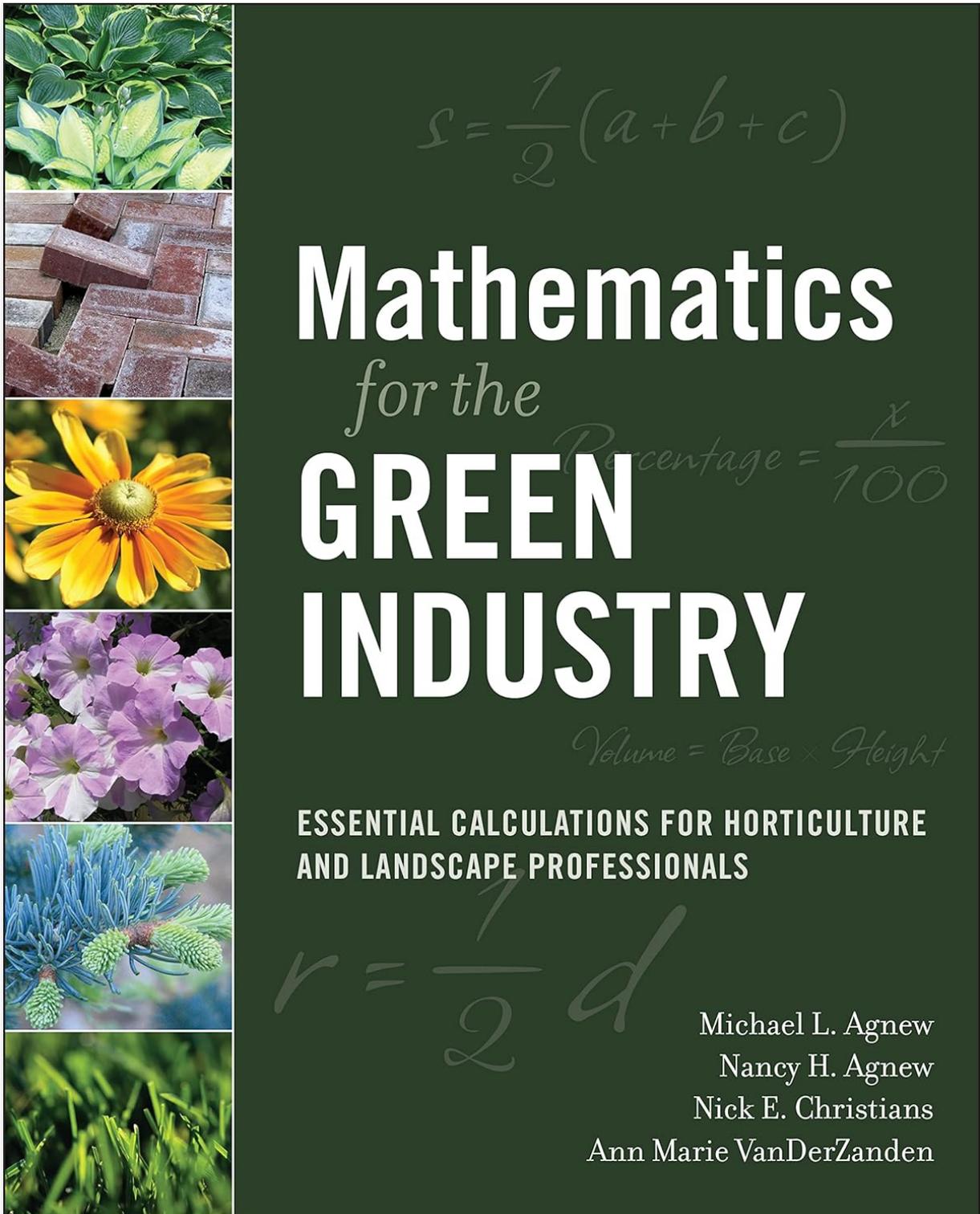


Figure 1: Front cover of "Mathematics for the Green Industry" book. This image displays the title, authors, and a collage of horticultural elements, indicating the book's focus.

#### Key Areas Covered:

- Landscape installation and maintenance calculations.
- Greenhouse, nursery, and interior landscape operation mathematics.
- Parks and recreation maintenance computations.
- Turf management, including lawn care, sports turf, and sod production.
- Proper application rates for fertilizers, pesticides, and plant-growth regulators.
- Calibration procedures for various application equipment.

This section details how to apply the mathematical principles presented in the book to real-world scenarios. Each topic includes examples and exercises to guide the user through the calculation process.

### Example: Calculating Area for Fertilizer Application

To determine the amount of fertilizer needed for a rectangular lawn, measure its length and width. Multiply these values to find the area in square feet. Consult the fertilizer product label for the recommended application rate per square foot.



**Figure 2:** Back cover of "Mathematics for the Green Industry" book. This image provides a summary of the book's content and lists the authors, reinforcing the scope of the manual.

### CONTINUED LEARNING AND REFERENCE

For ongoing reference and to deepen understanding, the book includes appendices with units of measure,

equivalents, and conversion factors. These resources are invaluable for quick look-ups and ensuring accuracy in calculations.

### Authors:

**Michael L. Agnew, PhD:** Senior Field Technical Manager for Syngenta Professional Products.

**Nancy H. Agnew, PhD:** Student Programs Instructor at Longwood Gardens, Inc.

**Nick E. Christians, PhD:** University Professor of Horticulture at Iowa State University.

**Ann Marie VanDerZanden, PhD:** Associate Professor of Horticulture at Iowa State University.

## PROBLEM SOLVING AND CLARIFICATION

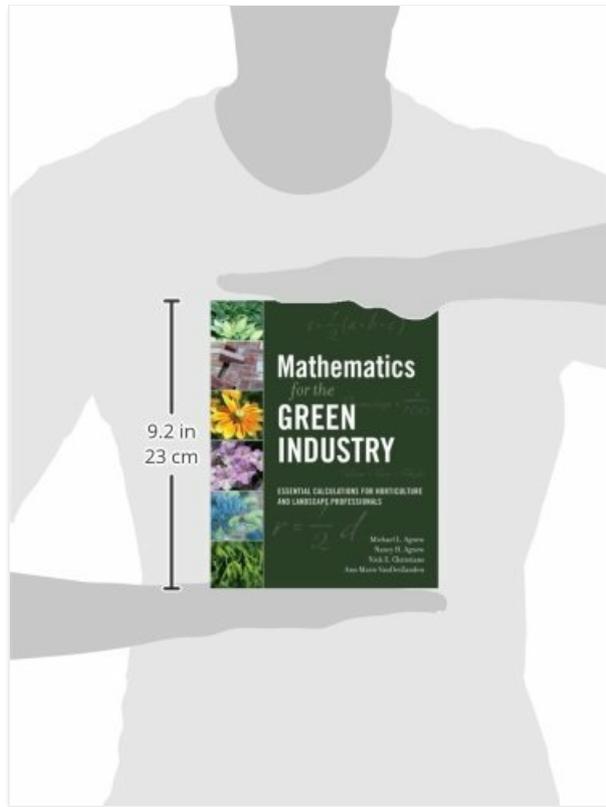
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Should difficulties arise with specific calculations or concepts, review the detailed examples provided within each chapter. The book's structure is designed to build understanding progressively. For further assistance, consult the appendices for conversion tables and unit definitions.

## SPECIFICATIONS

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<b>Title</b>	Mathematics for the Green Industry: Essential Calculations for Horticulture and Landscape Professionals
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<b>Item Weight</b>	1.5 pounds
<b>Dimensions</b>	7.3 x 1 x 9.1 inches



**Figure 3:** Side view of the book, illustrating its physical dimensions (9.2 inches or 23 cm in height). This image provides a visual reference for the book's size.

## SUPPORT AND ADDITIONAL RESOURCES

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For further inquiries or to explore additional resources, please visit the publisher's official website:

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