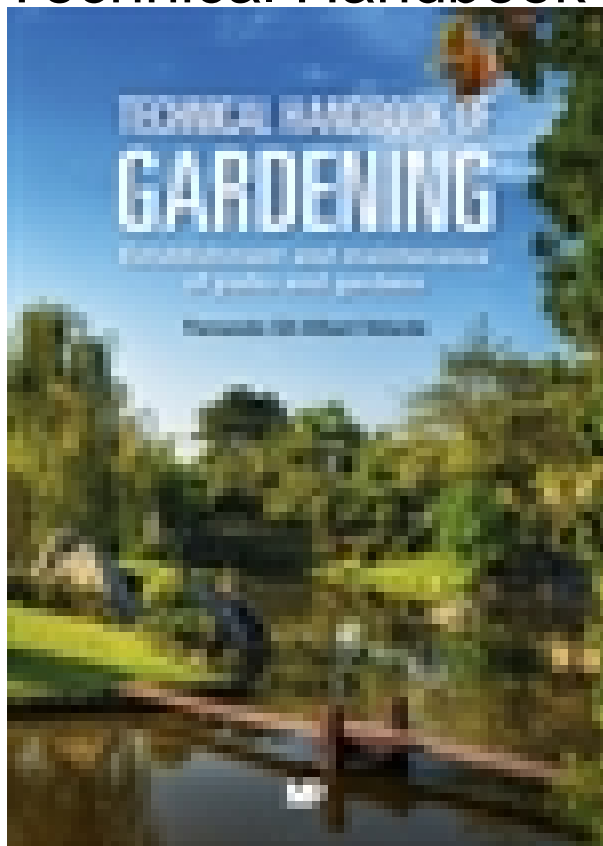


# Technical Handbook of Gardening



**Editorial:** Mundi-Prensa

**Autor:** FERNANDO GIL-ALBERT VELARDE

**Clasificación:** Divulgación General >  
Jardinería

**Tamaño:** 17 x 24 cm.

**Páginas:** 324

**ISBN 13:** 9788484769071

**ISBN 10:** 8484769070

**Precio sin IVA:** \$23872.00

**Precio con IVA:** \$23872.00

**Fecha publicacion:** 08/04/2024

## Sinopsis

### [Establishment and maintenance of parks and gardens](#)

Technical Handbook of Gardening is Technical Handbook of Gardening is meant for students and professionals of gardening in its many forms, as well as for garden lovers interested in learning about the agronomic techniques being used more and more in an area that was previously thought to be the domain of amateurs. Nowadays, gardening is not just a hobby, but calls for a higher level of scientific foundations and for more advanced technology, sophisticated tools, and expertise than ever before. This handbook may be used as a textbook for relevant workshops and courses in gardening schools and vocational training centres.

**Fernando Gil-Albert Velarde** holds a PhD in Agricultural Engineering and has been a professor of Arboriculture and Gardening. He also served as director of the Department of Plant Production at the School of Agricultural Engineering of the Polytechnic University of Madrid. In addition to being an emeritus professor at the aforementioned university, he promoted and directed the master's degree programme in Gardening and Landscaping. is publishing company has published several of his works on fruit growing, arboriculture, and gardening techniques.

# Indice

## **PART 1: ESTABLISHMENT OF PARKS AND GARDENS**

### **CHAPTER I GARDEN ESTABLISHMENT**

1.1. The process of establishing a garden

1.2. Pre-cleaning of the garden's surface

### **CHAPTER II PREPARING THE GROUND**

2.1. Standard soil preparation without adding new substrate

2.2. Soil preparation techniques

2.3. Soil preparation with the addition of substrate

### **CHAPTER III SOIL AMENDMENTS AND FERTILISERS**

3.1. Soil amendments prior to establishing the garden

3.2. Basal fertilisation

3.3. Basal fertilisation with other nutrients

### **CHAPTER IV STAKEOUT AND MARKING OF THE GARDEN**

4.1. Marking tools

4.2. Marking techniques

4.3. Time for marking

### **CHAPTER V OPENING PLANTING HOLES**

5.1. Opening the holes manually

5.2. Opening the holes mechanically

5.3. Time to open the holes

5.4. The size of the holes

### **CHAPTER VI THE PLANTING: PLANT TYPES**

6.1. Planting bare-root plants

6.2. Planting plants with a root ball

6.3. Transport and delivery of the plants

6.4. Conservation and handling of the plants at the destination

### **CHAPTER VII PLANTING OPERATIONS**

7.1. First steps in preparation

7.2. Planting practices

7.3. The planting seasons

### **CHAPTER VIII POST-PLANTING MAINTENANCE**

8.1. Post-planting care

8.2. Replacement of failed plants

8.3. Care during the first vegetative phase

### **CHAPTER IX ESTABLISHMENT OF GRASS AND LAWNS**

9.1. Soil and site preparation for lawns

9.2. Seeding systems

9.3. The process of establishing a lawn by planting vegetative elements

9.4. Planting seasons

### **CHAPTER X POST-ESTABLISHMENT LAWN CARE**

10.1. Initial care

10.2. Problems related to lawn development and settlement

10.3. The first mowing

10.4. Reseeding

## **PART 2: GARDEN MAINTENANCE**

12.10. Sanding

12.11. Irrigation, mineral fertilisation, phytosanitary defence

## **CHAPTER XIII MAINTENANCE OF AREAS WITHOUT VEGETATION COVER**

13.1. Digging

13.2. Maintenance by mulching

13.3. Maintenance with herbicide applications

## **CHAPTER XIII MAINTENANCE OF AREAS WITHOUT VEGETATION COVER**

13.1. Digging

13.2. Maintenance by mulching

13.3. Maintenance with herbicide applications

## **CHAPTER XIV MAINTENANCE PROCEDURES: ANNUAL MINERAL FERTILISATION AND SOIL AMENDMENTS**

14.1. Contribution of soil amendments

14.2. Annual mineral fertilisation

14.3. Annual needs

14.4. Fertiliser types

14.5. Fertilisation techniques

14.6. The time to apply mineral fertilisation

14.7. Mechanical equipment used

14.8. The correction of deficiencies

## **CHAPTER XV MAINTENANCE PROCEDURES: IRRIGATION**

15.1. Water needs in the garden

15.2. Irrigation systems used in gardening

15.3. Practical considerations about irrigation

15.4. The problems of irrigation water quality

## **CHAPTER XVI MAINTENANCE TECHNIQUES: PRUNING**

16.1. General considerations

16.2. Types of pruning

16.3. Aesthetic or landscape determining factors

16.4. Factors affecting urban gardening

16.5. Health conditions

16.6. Basic pruning criteria

16.7. Times of pruning work

16.8. Tools and pruning equipment

16.9. Complementary materials and equipment

16.10. How to use pruning tools

16.11. The quality of pruning cuts

16.12. Complementary pruning techniques

## **CHAPTER XVII MAINTENANCE TECHNIQUES: TRIMMING HEDGES AND BORDERS**

17.1. Training process of hedges and borders

- 17.2. Trimming done for maintenance
- 17.3. Tools for trimming
- 17.4. Renovation pruning
- 17.5. Times of renovation pruning
- 17.6. Artistic or geometric decorative shapes

## **CHAPTER XVIII MAINTENANCE TECHNIQUES: PEST AND DISEASE CONTROL**

- 18.1. Conditioning factors and key aspects of phytosanitary management
- 18.2. Equipment and application methods needed for phytosanitary control
- 18.3. Phytosanitary products used in gardening
- 18.4. Active substances recommended in gardening
- 18.5. Common pests in our gardens
- 18.6. Cryptogamic diseases
- 18.7. Problems caused by wildlife

## **CHAPTER XIX INCIDENTS CAUSED BY CLIMATIC AND SOIL PROBLEMS**

- 19.1. Winter cold: winter frosts
- 19.2. The problem of mild winters: the lack of rest (chilling requirements)
- 19.3. Spring frosts
- 19.4. Summer temperatures: 'heat stroke'
- 19.5. Incidents caused by rain
- 19.6. Problems caused by insolation
- 19.7. Incidents and damage caused by wind
- 19.8. The problems caused by hail and hailstones
- 19.9. The incidence of snow
- 19.10. The effect of lightning

## **CHAPTER XX TREE SURGERY**

- 20.1. Treatment and care of wounds on trunk and branches
- 20.2. Treatment and care of cavities in the wood
- 20.3. Cabling and bracing branches
- 20.4. Placement of fixed supports
- 20.5. Installation of lightning rods

Ediciones Paraninfo S.A. Calle Velázquez no. 31, 3º. Derecha, 28001 Madrid (España)  
Tel. (+34) 914 463 350 Fax (34) 91 445 62 18  
[email protected] [www.mundiprensa.com](http://www.mundiprensa.com)