

PLANT STRUCTURE AND GROWTH

There are about 250,000 species of flowering plants or angiosperms.

This is the dominant group in terrestrial habitats. Our survival depends on them.

- Food, medicine, lumber, etc.

The name angiosperm is derived from the Greek *angeion*, means vessel, and *sperma* means seed.

The form of plants is controlled both by the environment and by their genetic makeup.

Plants show **plasticity**, the ability to alter or mold itself in response to local environmental conditions.

Plants also have a **morphology**, external form or external anatomy, controlled by their genotype.

THE PLANT BODY

A plant's structure reflects its interaction with the environment.

Plants have become adapted through natural selection to specific problems posed by terrestrial environments.

Plants have tissues and organs.

Plants have two organ systems: **root system** and **shoot system**.

Plants have three basic organs: **roots, stems and leaves**.

ROOT SYSTEMS

Taproot system.

- Produced by gymnosperms and dicots.
- It consists of one large vertical root that grows downward and is called then a **taproot**.
- It produces lateral roots.
- This system generally penetrates deep into the soil.

Fibrous root system.

- It is found in monocots.
- **Adventitious** roots develop from the stem and/or leaves.
- Each root in turn develops its own lateral roots.
- This system is usually shallow.

The tip of the roots in both monocots and dicots is covered with **root hairs**.

Root hairs are extension of the epidermal cells and increase the absorbing area of the root.

Plant Structure Study Guide

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A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Plant Structure Study Guide:

The book delves into Plant Structure Study Guide. Plant Structure Study Guide is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Plant Structure Study Guide, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Plant Structure Study Guide
 - Chapter 2: Essential Elements of Plant Structure Study Guide
 - Chapter 3: Plant Structure Study Guide in Everyday Life
 - Chapter 4: Plant Structure Study Guide in Specific Contexts
 - Chapter 5: Conclusion
2. In chapter 1, this book will provide an overview of Plant Structure Study Guide. The first chapter will explore what Plant Structure Study Guide is, why Plant Structure Study Guide is vital, and how to effectively learn about Plant Structure Study Guide.
3. In chapter 2, this book will delve into the foundational concepts of Plant Structure Study Guide. The second chapter will elucidate the essential principles that need to be understood to grasp Plant Structure Study Guide in its entirety.
4. In chapter 3, the author will examine the practical applications of Plant Structure Study Guide in daily life. The third chapter will showcase real-world examples of how Plant Structure Study Guide can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Plant Structure Study Guide in specific contexts. The fourth chapter will explore how Plant Structure Study Guide is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, this book will draw a conclusion about Plant Structure Study Guide. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Plant Structure Study Guide.

<https://crm.avenza.com/public/detail/fetch.php/openreach%20master%20socket%20wiring.pdf>

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