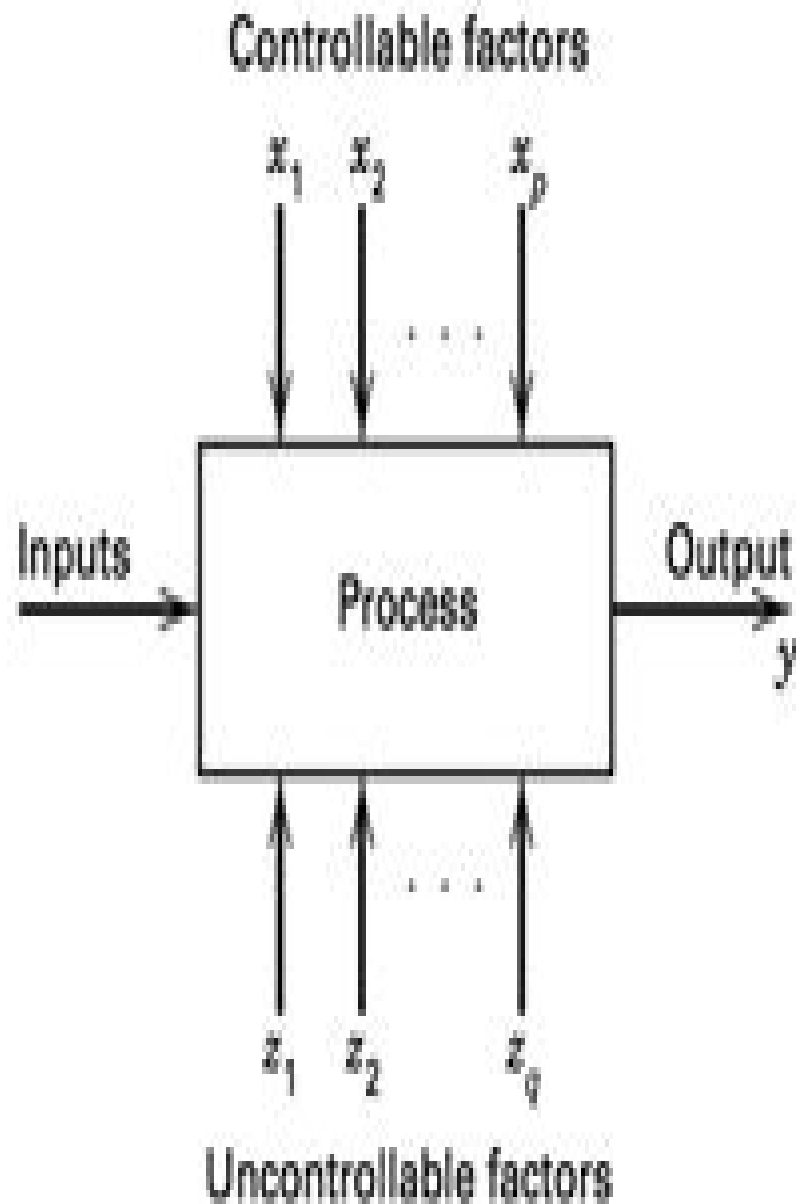


■ **FIGURE 1.1** General model of a process or system



# Controlable Environment Factor

**R. W. Culley**



## **Controlable Environment Factor:**

**Controlled Environment Horticulture** Christoph-Martin Geilfus, 2019-08-21 An understanding of crop physiology and ecophysiology enables the horticulturist to manipulate a plant's metabolism towards the production of compounds that are beneficial for human health when that plant is part of the diet or the source of phytopharmaceutical compounds. The first part of the book introduces the concept of Controlled Environment Horticulture as a horticultural production technique used to maximize yields via the optimization of access to growing factors. The second part describes the use of this production technique in order to induce stress responses in the plant via the modulation of these growing factors and importantly the way that this manipulation induces defence reactions in the plant resulting in the production of compounds beneficial for human health. The third part provides guidance for the implementation of this knowledge in horticultural production.

Controlled Environment Horticulture: Where Plant Biotechnology Meets Sustainable Future Hemant Bagul, Nikita Patel, T. R. Ahlawat, R. Krishnamurthy, Stephen Oyedele, 2025-09-16 A comprehensive exploration into the convergence of advanced plant science engineering and biotechnology to revolutionize food production in controlled environments. As global challenges such as climate change, population growth, and resource scarcity intensify, this book highlights the transformative potential of controlled environment horticulture (CEH) in building a more resilient and sustainable food future. The volume covers a wide range of topics including smart greenhouse technologies, precision agriculture, vertical farming, bioreactor-based plant production, and gene-edited crops optimized for indoor systems. It integrates biological advances with technological innovations to improve yield, quality, and resource efficiency in horticultural practices. By blending plant biotechnology with environmental control strategies, the book serves as a roadmap for sustainable intensification in horticulture. Key features: Explores integration of genomics, phenotyping, and controlled environments. Demonstrates the use of sensors, AI, and automation in smart horticultural systems. Addresses energy-efficient lighting, water use, and nutrient management. Highlights sustainability metrics and circular economy practices. Provides case studies on commercial CEA models and innovation pathways.

*Handbook of Cannabis Production in Controlled Environments* Youbin Zheng, 2022-06-29 For thousands of years, *Cannabis sativa*, commonly called cannabis or marijuana, has been used for many different purposes. Due to its enormous medicinal values, increasing numbers of countries and regions have started to legalise the cultivation of this plant. When grown commercially, cannabis is most often produced in controlled environments, including greenhouse and indoor growing rooms, to ensure consistent growth and high quality. Even for field production, propagation is frequently conducted in controlled environments. Commercial operations and individual growers who cultivate cannabis for personal consumption require scientific information on how to cultivate cannabis most effectively and efficiently. To meet these needs, scientists have been conducting research on how to optimize cannabis cultivation both in small and large scales. *Handbook of Cannabis Production in Controlled Environments* is the result of collaborations between some leading cannabis scientists and highly

experienced practitioners Featuring full color illustrations and photographs throughout this book covers a broad range of topics include cannabis biology science and techniques for breeding and propagation management and optimization of both aerial and rootzone environments plant nutrition and nutrient disorder diagnosis crop training and pest management harvesting and post harvest processing Along with the basic aspects of controlled environment cannabis production this book summarises developments in these areas that may challenge old beliefs and improve production Led by Editor Youbin Zheng President of the Canadian Society for Horticultural Science La Soci t Canadienne de Science Horticole this book is a practical guide for cultivators consultants and researchers a reference for students and an information source for individuals who grow cannabis for personal consumption

**Instant Insights: Controlled environment agriculture** Various authors, Dr Ying Liu, Dr Paul Kusuma, Professor Leo F. M. Marcelis, Dr Michael Martin, Dr Francesco Orsini, Prof Nazim S. Gruda, Dr Josef Tanny, Dr James E. Faust, 2025-04-22 Provides a detailed overview of the recent advances in controlled environment agriculture Reviews the sustainability of controlled environment agriculture Summarises recent developments in controlled environment technologies including lighting and climate control

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