

Hydroponics For Everyone A Practical To Gardening In The 21st Century

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Hydroponics For Everyone A Practical To Gardening In The 21st Century

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GABRIELLE SANAA

A Practical Guide for the Soilless Grower Independently Published
This book contains proven steps and strategies on how to plant your own hydroponic garden in your home. There are lots of ready-made kits out there, but in this book you will learn to design and build your own systems - it's easy than you think! You will find out what system will work best for you and what plants to start with. Most of all, you'll be amazed by how easy and inexpensive hydroponics can be. For people who are almost (but not quite) satisfied with their own hydroponic garden but can't figure out what's missing, then keep reading... Do you finally want to do everything right with your hydroponics garden and be a real know-it-all hydroponic gardener? Do you want to become a hydroponic 'specialist' grower in your spare time only? Are you sick and tired that your garden simply reaches a point where it no longer improves or provides any larger yields? You see, improving your hydroponic knowledge can be challenging, but not difficult. It does not necessarily require a huge investment or years of hydroponic experience in order to develop your hydroponics skills. Because you too can now learn advance hydroponic at home - quickly, easily, pleasantly- just as thousands of others did themselves. Because an improved hydroponic system will have plants of exceedingly high quality and consume fewer resources. In fact, even a well-known company like IKEA are building these hydroponic systems. This book is written precisely for the many thousands of hydroponic growers who harbor the same sentiments I suspect you're feeling right now. And by that I mean... If you're fed up with dangerous indoor plant pest where it can destroy 37% of your hydroponic plants. If you're dismayed by all these plant diseases that are threatening your hydroponic garden and you want to know how to build an invisible iron fortress around your grow room to prevent these plant diseases. If you're a little frustrated of not knowing how to upgrade your hydroponic gardens to grow 2X more on less space. If you're determined to keep your plants healthy and waste to a minimum in their own ways. And if you want firm, conservative and, most important of all, correct guidance on exactly how to prosper in your hydroponic garden. If you've experienced any or all of these feelings, then this book is written for you. **Buy and give a 5star Review**

A Practical Guide to Gardening in the 21st Century

Independently Published

Plant Factory: An Indoor Vertical Farming System for Efficient Quality Food Production provides information on a field that is helping to offset the threats that unusual weather and shortages of land and natural resources bring to the food supply. As alternative options are needed to ensure adequate and efficient

production of food, this book represents the only available resource to take a practical approach to the planning, design, and implementation of plant factory (PF) practices to yield food crops. The PF systems described in this book are based on a plant production system with artificial (electric) lights and include case studies providing lessons learned and best practices from both industrial and crop specific programs. With insights into the economics as well as the science of PF programs, this book is ideal for those in academic as well as industrial settings. Provides full-scope insight on plant farm, from economics and planning to life-cycle assessment. Presents state-of-the-art plant farm science, written by global leaders in plant farm advancements. Includes case-study examples to provide real-world insights. Hydroponic Garden Secrets Independently Published
Now in full color with over 300 new photos and illustrations, "Hydroponics for Everyone" is the latest incarnation of the bestselling guide to gardening the simple and practical way. Included in this guide are sections on new technologies and products, expanded information on growing 10% more plants, and a revised global listing of equipment suppliers for every gardening need.

239 Citations New Moon Publishing, Inc.

Hydroponics offers many advantages to traditional soil-based horticulture. These include greater control over many of the limiting factors, such as light, temperature, and pests, as well as the ability to grow plants in all seasons. With instruction from one of the top recognized authorities worldwide, Hydroponics for the Home Grower gives you step-by-step guidance on how to grow tomatoes, peppers, cucumbers, eggplant, lettuce, arugula, bok choy, and various herbs year-round within your home or in a backyard greenhouse. Read an Interview with Dr. Resh here. With Dr. Howard Resh's help, you'll learn: Background information on how hydroponics evolved. The nutritional and environmental demands of plants and how to control these factors. How to provide formulations of nutrients optimal to the plants you wish to grow. The many different hydroponic systems you can purchase or build for yourself. Designs for different types of greenhouses with components to fit your personal taste and budget. Crop selection and step-by-step procedures, including seeding, transplanting, training, pest and disease control, and harvesting—along with when to plant and when to change crops. How you can grow microgreens on your kitchen counter. The book includes an appendix with sources of seeds and other supplies, along with helpful websites and lists of books, articles, and conferences on growing hydroponically and caring for your crops. By following the guidelines in this book, you'll understand everything you need to know to get your home-growing operation up and running in no time.

Hydroponic Gardening the Very Easy Way CABI

There has never been a better time to work on your own healthy garden, Here's why: Not only will you GROW your own food but you can also get your children involved in gardening and show them how important it is to develop an understanding of plants and nature. Not only how to cultivate their own food but also some incredible, future-proof skills for when they introduce their own children to the joys of gardening in later life. Build YOUR Garden anywhere. Create perimeter gardens, spice up your entryway, grow food in your front yard, with Gardening the sky is literally the limit GROW more food in less space. You can set plants closer together so every square inch is productive. And small-space gardening techniques, such as succession planting and vertical supports, ensure that every square inch of space is used. In this Hydroponics Made Easy book, you will discover: - Introduction to Hydroponics - Advantages and Disadvantages - Types of Hydroponics Systems - Hydroponics vs Aquaponics - Tips to Getting started - Equipment irrigation - Humidity and temperature sensor - And Much More Are you a keen gardener, keen to take your hobby or professional interest to the next level? If the answer is YES... Order Now! Scroll up and click "Buy NOW with 1-click" and download YOUR Copy TODAY!

The Comprehensive, Practical and Scientific Guide to Commercial Hydroponic Gardening. Breakout Productions Incorporated

DIY Hydroponic Gardens takes the mystery out of growing in water. With practical information aimed at home DIYers, author Tyler Baras (Farmer Tyler to his fans) shows exactly how to build, plant, and maintain more than a dozen unique hydroponic systems, some of which cost just a few dollars to make. Growing produce without soil offers a unique opportunity to have a productive garden indoors or in areas where soil is not present. An expert in hydroponics, Baras has developed many unique and easy-to-build systems for growing entirely in water. In DIY Hydroponic Gardens, he shows with step-by-step photos precisely how to create these systems and how to plant and maintain them. All the information you need to get started with your home hydroponic system is included, from recipes for nutrient solutions, to light and ventilation sources, to specific plant-by-plant details that explain how to grow the most popular vegetables in a self-contained, soilless system. Even if you live in an area where water is scarce, a hydroponic system is the answer you've been looking for. Hydroponic systems are sealed and do not allow evaporation, making water loss virtually nonexistent.

Hydroponics for Everyone Woodbridge Press Publishing Company

Hydroponics revolutionized the way we grow plants. Thanks to hydroponics you no longer need soil when growing plants, yielding you a host of benefits. One of the benefits and reasons for why hydroponics is so effective, is that it gives the plant exactly what it needs, when it needs it and in the amount it needs it in order for the plant to be as healthy and grow as fast as possible. That is why a plant that is grown with the help of hydroponics will almost always outgrow a plant that is planted in normal soil. The sole purpose of this book is to provide you with all the information that you need in order to start taking full advantage of hydroponic gardening. Not only will this book cover everything from the different types of hydroponic gardening techniques to choosing the right plants, but it will also provide you with simple guidelines for setting up your own inexpensive hydroponics gardening system. Just some of the topics that are covered in this book include: What is hydroponics? What can you grow? The history of hydroponics Types of hydroponic gardening techniques Different hydroponic system kits Benefits of hydroponic gardening Essential hydroponic plants How to start your own hydroponics garden today Solving problems in your hydroponics

garden Do's and don'ts much, much, more This is the only book on hydroponics you will ever need! Scroll up and click buy for an instant download.

297 Citations Academic Press

Do you want to quickly grow fresh vegetables from home without the use of dirty soil? Then keep reading... There are a ton of reasons why somebody would want to start to grow vegetables in their own home, which range from finances to health and from the environmental impact to the mental benefits. One of the significant changes in the last few years has been a strong push towards organically grown vegetables. The use of chemicals to fertilize or treat crops for pest control makes perfect sense when you consider vegetable farming as an industry. Starting a vegetable garden can be intimidating for some people; there are a lot of methods to grow vegetables, but what is the best way to start? Hydroponics is one of the most comfortable methods for growing vegetables, thanks to the fact that it is not necessary to use dirty soil. Also, Hydroponic systems work by facilitating timely measurement of environmental conditions such as temperature and pH balance and overall exposure to nutrients and water. The hydroponic theory is straightforward: plants give what they need when they need it. Nutrients are supplied by hydroponics and are adapted to the specific planting needs. You need to test how much light and how long the plants get. It is possible to monitor and change pH values. Plant growth accelerates in a finely optimized and controlled environment. In this book you will find: How to build your Hydroponic system at home Why hydroponics is the best method to grow vegetables Equipment you need Seeds germination Seed starter cubes How to Planning your vegetable garden How to Light your plants And much more! Since you're going to be practicing the art and science of the way "water gardening," then it is a wise idea to comprehend everything your regional water contains. Even if you are a beginner in this area or have never studied anything about it, this book is the perfect step-by-step guide to start growing vegetables with your hydroponic system. Ready to get started? Click "Buy Now"!

Secrets of Hydroponic Gardening - a Practical Guide for Beginners to Learn Everything about Hydroponic Gardening CRC Press

HYDROPONICS GARDENING-EVERYTHING YOU NEED TO KNOW

Hydroponic gardening can be very complicated, with computers and sensors controlling everything from watering cycles to nutrient strength and the amount of light that the plants receive. On the other hand, hydroponics can also be incredibly simple; a hand watered bucket of sand with a single plant is also a method of hydroponic gardening. Most hobby oriented hydroponics systems are somewhere between the two extremes mentioned above. The "average" home hydroponic system usually consists of a few basic parts: a growing tray, a reservoir, and a simple timer controlled submersible pump to water the plants and an air pump and air stone to oxygenate the nutrient solution. Of course, light (either natural or artificial) is also required. HISTORY OF HYDROPONICS. Hydroponics basically means working water ("hydro" means "water" and "ponos" means "labor"). Many different civilizations have utilized hydroponic growing techniques throughout history. As noted in Hydroponic Food Production (Fifth Edition, Woodbridge Press, 1997, page 23) by Howard M. Resh: "The hanging gardens of Babylon, the floating gardens of the Aztecs of Mexico and those of the Chinese are examples of 'Hydroponic' culture. Egyptian hieroglyphic records dating back several hundred years B.C. describe the growing of plants in water." Hydroponics is hardly a new method of growing plants. However, giant strides have been made over the years in this innovative area of agriculture. Throughout the last century, scientists and horticulturists experimented with

different methods of hydroponics. One of the potential applications of hydroponics that drove research was for growing fresh produce in nonarable areas of the world. It is a simple fact that some people cannot grow in the soil in their area (if there is even any soil at all). This application of hydroponics was tested during World War II. Troops stationed on nonarable islands in the Pacific were supplied with fresh produce grown in locally established hydroponic systems. Later in the century, hydroponics was integrated into the space program. As NASA considered the practicalities of locating a society on another planet or the Earth's moon, hydroponics easily fit into their sustainability plans. This research is ongoing. But by the 1970s, it wasn't just scientists and analysts who were involved in hydroponics. Traditional farmers and eager hobbyists began to be attracted to the virtues of hydroponic growing. A few of the positive aspects of hydroponics include: ● The ability to produce higher yields than traditional, soil-based agriculture ● Allowing food to be grown and consumed in areas of the world that cannot support crops in the soil ● Eliminating the need for massive pesticide use (considering most pests live in the soil), effectively making our air, water, soil, and food cleaner Commercial growers are flocking to hydroponics like never before. The ideals surrounding these growing techniques touch on subjects that most people care about, such as helping end world hunger and making the world cleaner. In addition to the extensive research that is going on, everyday people from all over the world have been building (or purchasing) their own systems to grow great-tasting, fresh food for their family and friends. Educators are realizing the amazing applications that hydroponics can have in the classroom. And ambitious individuals are striving to make their dreams come true by making their living in their backyard greenhouse, selling their produce to local markets and restaurants.

The Hydroponic Hot House Springer

Did you know that with a hydroponic system it is possible to produce 100% natural foods without leaving the comfort of your home? Hydroponics is a farming method that is booming thanks to all the advantages it offers; these advantages can also be yours. In the book *Hydroponics For Beginners*, you will find the answers you need about hydroponics system. It is an extraordinary and a very practical guide that teaches how to build a hydroponic garden at home. It contains all the techniques (for beginners and advanced) explained clearly in order to help you follow its steps. What is a hydroponic system? A hydroponic system is a way of farming that does not require soil or the commonly used fertilizers or pesticides. In this type of farming patch, the roots remain in suspension and only require water and some special nutrients. There are different techniques to build the structure of the farming. The hydroponic system is a smart and easy way to farm and grow the food you need in your own home. In the book *Hydroponics For Beginners*, you can learn more about hydroponics and how to build your own. *Hydroponics For Beginners* is a book written with special attention and care for details so that readers can deeply understand this ancestral cultivation alternative. Unlike other books, it is: ● Written by an expert in the field. ● It not only contains theory about hydroponics, it is too a practical guide ● Ideal for readers who have no knowledge about the subject, helping them from basic to advanced techniques, including at the same time topics of interest to those who are already known about hydroponic systems. ● Aimed at all ages, it has an easy and very understandable language. Why should you buy the book *Hydroponics For Beginners*? If you want to build a sustainable hydroponic system that fits your goal of producing 100% natural food, you need to be informed in the best way; a simple article on

Internet will not be enough. By reading the book *Hydroponics For Beginners* you will be ready to: ● Clearly understand what a hydroponic system is ● Know the advantages of hydroponics and why you should prefer it ● Know how to create hydroponic nutrients or how to know which the best to buy is ● Know the types of hydroponic systems and choose the one that suits your needs ● Choosing the right plants, vegetables, greens to grow ● Maintain your hydroponic system ● Learn about deep-water culture, EBB system, flow system and drip system. ● Build proper ventilation and oxygenation systems. ● How to treat pests ● Learn how to generate clones ● Much, much more. Maybe you are thinking that building a hydroponic system is very complicated, but no, it is easy, once you know the general guidelines, with a little help and practice, it will become part of your lifestyle. Building your own hydroponic system is the first step in taking care of your health and that of your family, remember that our health is a reflection of what we eat. In contrast, the market is increasingly saturated with unhealthy food. Learn how to build your own hydroponic system with the book *Hydroponics For Beginners*. Get a copy and start!

A Definitive Guidebook of Soilless Food Growing Methods for the Professional and Commercial Grower and the Advanced Home Hydroponics Gardener Teacher Created Resources

Hydroponics for Everyone A Practical Guide to Gardening in the 21st Century Hyland House Publishing
Hydroponics for Everyone A Practical Guide to Gardening in the 21st Century Hyland House Publishing

Hydroponics for Beginners UNSW Press

Discover how to make your own hydroponic garden with the help of this comprehensive guide! Do you want to create your very own soil-free garden? Have you heard of hydroponic gardens before, but you're not sure where to begin? Then this is the book for you! Hydroponic gardens are a great way to grow plants without the soil, compost, and all the mess - but how can you build one of these amazing gardens? And how does this incredible process work? Inside this detailed guide, you'll discover an insightful exploration of hydroponic gardens, and how you can grow your own plants with ease. Containing a breakdown of the fundamentals, including the science behind hydroponics and the nutrient solutions, this book also explores how you can build your own hydroponic garden and grow a wide variety of plants. Here's what you'll uncover in this comprehensive guide: The Science Behind Hydroponics Hydroponics Fundamentals - Ph, Oxygen, Nutrient Solutions and More Understanding Growing Mediums and Types Of Rock The Countless Benefits Of Hydroponic Gardening How to Choose The Best System For You! Tips And Tricks For Building Your Own Hydroponic Garden How to Plant, Germinate, Transplant, and Grow Seedlings Troubleshooting Common Problems And So Much More! With a wealth of insightful advice and practical strategies, now you can start your very own hydroponic garden with ease! Learn how to build, manage, and succeed with your garden, and enjoy the benefits of home-grown plants without the soil and mess! Buy now to discover how to succeed with hydroponic gardens today!

Aquaponics Food Production Systems CRC Press

This book contains proven steps and strategies on how to plant your own hydroponic garden in your home. There are lots of ready-made kits out there, but in this book you will learn to design and build your own systems - it's easy than you think! You will find out what system will work best for you and what plants to start with. Most of all, you'll be amazed by how easy and inexpensive hydroponics can be.

Quick Bibliography Series CRC Press

This is a comprehensive revision of *Growing Media*, first published in 1984 and last revised in 2002. Since its first publication the

book has been a core text for Horticulture students at TAFE colleges and universities as well as an important reference title.
Plant Factory CRC Press

A comprehensive, practical text which covers a diverse range of hydroponic and protected cropping techniques, systems, greenhouse types and environments. It also details the use of indoor plant factories, vertical systems, organic hydroponics and aquaponics. Worldwide hydroponic cropping operations can vary from large, corporate producers running many hectares of greenhouse systems particularly for crops such as tomato, cucumber, capsicum and lettuce, to smaller-scale growers growing fresh produce for local markets.

How to Design and Build an Inexpensive System for Growing Plants in Water Cool Springs Press

Home Hydroponics presents fully illustrated plans for building over a dozen different beautiful, home-based DIY hydroponic growing systems to cultivate your own food indoors.

Home Hydroponics Hydroponics for Everyone A Practical Guide to Gardening in the 21st Century

Gardening is a rewarding hobby. And one that can produce you substantially more crop if done correctly. Using innovative gardening methods such as hydroponics or greenhouse gardening can help your plants mature 25% faster while delivering a 30% increase in yield. If you want to taste the pleasure of your homegrown food and see tremendous results this Book Bundle on Greenhouse Gardening and Hydroponics is for you! With hydroponics: You don't need a yard or garden area. Plants grow faster and produce more harvest compared to plants grown in soil. Grow out of season crops, all year round.

Greenhouse gardening gives you the opportunity to extend your growing season. Grow plants that normally don't survive in your region. Jump-start a new growing period. Whatever goal you have this guide get you covered. This bundle contains the first three books* from the bestselling Urban Homesteading Series: #1 Hydroponics: How to Pick the Best Hydroponic System and Crops for Homegrown Food Year-Round With this book, you will learn the basics of hydroponics and find the hydroponic system that best suits your needs. #2 DIY Hydroponics: 12 Easy and Affordable Ways to Build Your Own Hydroponic System This book takes you through the six hydroponic systems and gives you step-by-step instructions on how to create and maintain your own hydroponic garden. #3 Greenhouse: How to Build a Greenhouse and Grow Vegetables, Herbs and Fruit All Year-Round The one-stop guide on greenhouse construction, maintenance and planting schedules. Inexpensive options and money-saving tips help you reduce your costs in building and running your greenhouse. IN THIS COLLECTION YOU WILL LEARN: Everything you need to know about the six different hydroponic systems Decide which system suits your needs by considering your budget, time, space and level of experience Learn which crops and growing medium are best suited to each hydroponic system Understand the role of nutrients and lighting for healthy, prosperous gardens Learn how to build your own hydroponic system - from easy to more advanced set-ups Understand how to maintain your system and care for your plants Identify pests and diseases in your hydroponic garden and learn how to combat them Learn what greenhouse gardening is all about. Get to know the different types of greenhouses and choose the one that suits your needs. Choose the best type of glazing, flooring and construction material for your greenhouse. Learn how to heat your greenhouse and use ventilation to keep the humidity level just right. Learn how to utilize lighting and irrigate your plants for optimal growth. Get an overview of the essential equipment you need to keep your garden healthy. Learn how to schedule your plants for year-round gardening. Get an overview of how to grow

different herbs, vegetables and fruits in your greenhouse. Integrate hydroponics into your greenhouse. Understand how to maintain your greenhouse and care for your plants. This bundle will help you save time and trouble with easy to follow illustrations, tables and a glossary of relevant terms. Take the first step to building your own hydroponic and greenhouse garden. To get started, scroll up and grab your copy today. *The book bundle does not consist of 3 separate books but combines all 3 books into 1 book.

DIY Hydroponics Gardens CRC Press

Grow your own delicious food literally anywhere. In *Home Hydroponics*, hydroponic-growing pro Tyler Baras (aka Farmer Tyler) shows you how easy it is to build your own soilless growing systems to cultivate greens, veggies, herbs, and more. And, to sweeten the deal even further, Tyler's designs are not just functional, they're also attractive. In fact, unlike the typical industrial designs of most DIY hydroponic systems, these projects fit beautifully into your living space, no matter its size or style. The small-space hydroponics projects found here come with easy-to-follow, step-by-step plans for making growing systems that fit right into your home. No need to have a separate grow room or to tuck your plants into a corner of the basement. Turn a coffee table, kitchen cupboard, bathroom wall, bedside table, or windowsill into a wonder of hydroponic production with Tyler's project plans and DIY tutelage. Turn a living room armoire into a food-growing machine Build a hydroponic wall garden for the dining room Convert a bar cart into a mobile hydroponics system Grow scented herbs in a unique hanging unit Fill a kitchen window with hydroponic suction cup planters Cultivate your own food on a compact corner shelf in your bedroom With hydroponics, you can grow productive plants anywhere, even in the total absence of natural sunlight. *Home Hydroponics* covers everything from crop selection and lighting to nutrient management and site selection. Turn almost any room in your home into a mini food farm with the resources and projects found here.

Hydroponics for Everyone Createspace Independent Publishing Platform

With over 45,000 acres of greenhouse vegetation currently being grown hydroponically throughout the world, hydroponics has become one of the most rapidly expanding new areas of plant research. Although growing plants without soil has been practiced since ancient times, hydroponics-the growing of plants specifically in water or nutrient solutions-has shown itself to be the most cost-effective way of maximizing yield, eliminating plant disease, minimizing labor costs and getting the most out of limited land resources. It's both an economically and ecologically sound approach to field-crop production and soil management. Successfully practicing hydroponics, however, requires a working knowledge of the mechanics of plant growth and a firm grasp of the hydroponics process. *Hydroponics: A Practical Guide for the Soilless Grower* clearly explains the basics of plant growth and development, the different methods of preparing and using hydroponic nutrient solutions, and hydroponic options for various environmental conditions. It gives the reader instructions for simple experiments and a number of helpful charts, tables and illustrations. Completely up-to-date, the book also describes, in detail, all the latest techniques for hydroponic growing. It addresses new challenges in the field such as growing food for astronauts, practicing hydroponics in inhospitable environments and updating nutrient element supplies for the demands of the next century. It's an ideal guide for anyone interested in plants and how they grow-from casual hobbyists and students to commercial growers and professional plant researchers.

Hydroponics Should Be Easy Hyland House Publishing

This comprehensive guide is the only book that focuses on the Deep-Water-Culture (DWC) hydroponic system. You will quickly learn how to use the DWC system, which is the lowest cost, easiest to set up, easiest to maintain, and easiest to expand hydroponic system. This definitive how-to-resource will guide you through each step of the way. Year-round gardening, indoors and outdoors, pesticide- and herbicide-free. Take control of what you eat. Grow what you like in a very small space. Grow vertically to increase your yield. No gardening experience is necessary. Who would benefit from this book? The ideas in this book will work for you, whether you live in a mansion, a single room, a condo, a senior center, an assisted living facility, whether you live in the city or the country, or whether you have ever wondered how you can possibly grow vegetables and herbs in just water and air. It is a sustainable process and great for the environment and, especially healthy for you and your family. What will you learn?

Through 280 pages in 15 modules, 120 photographs, 23 DIY projects, 26 tables and charts, 9 case studies you will learn ... - How to build your own DWC system with food safe buckets, totes and PVC tubes. - What off-the-shelf fertilizers to buy and how to create your own. - How to use Integrated Pest Management and non-chemical solutions for disease and insect control. - What lighting units to buy, how to build portable light frames and elevated tables. - How to select the right growing medium. - What, when and how to plant seeds and seedlings and when and how to harvest everything your taste buds crave-from sweet basil to salad greens to luscious, tasty tomatoes. Very easy. Very rewarding. Hydroponic Gardening The Very Easy Way has everything you need to know about DWC hydroponic gardening and more. Take control of what you eat-and have fun doing it! Larry Cipolla is a master gardener, international speaker, and hydroponics expert. He lives and gardens in Minnesota.