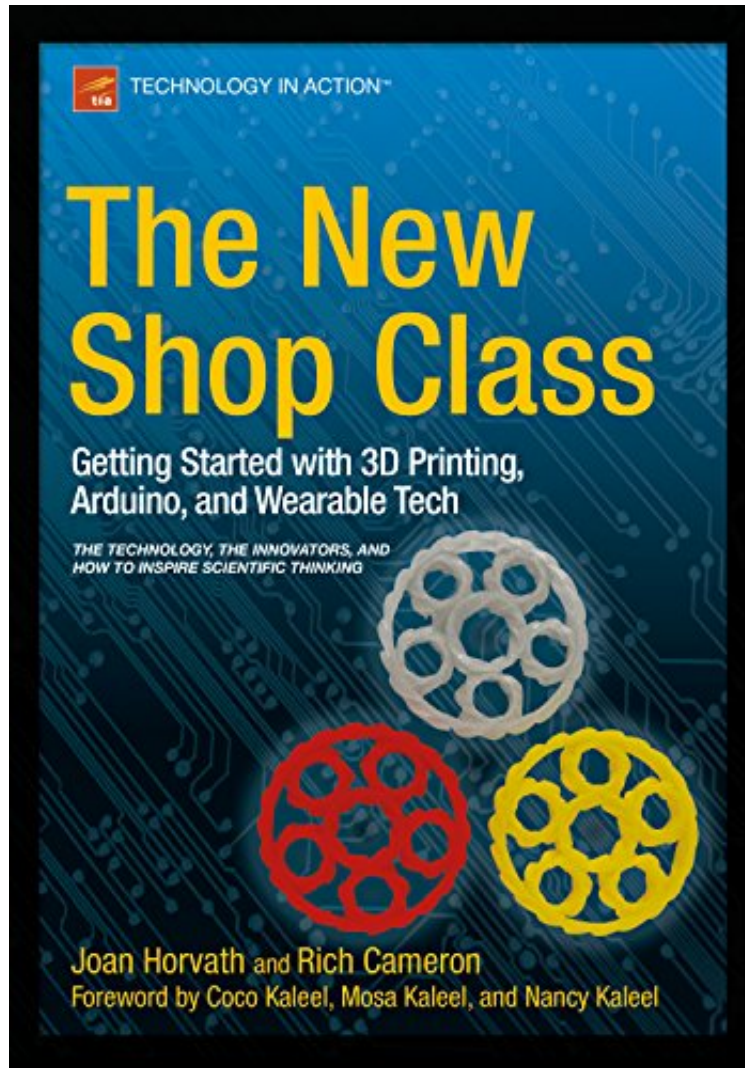


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The New Shop Class: Getting Started with 3D Printing, Arduino, and Wearable Tech

Joan Horvath, Rich Cameron

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Joan Horvath, Rich Cameron : The New Shop Class: Getting Started with 3D Printing, Arduino, and Wearable Tech before purchasing it in order to gauge whether or not it would be worth my time, and all praised The New Shop Class: Getting Started with 3D Printing, Arduino, and Wearable Tech:

6 of 6 people found the following review helpful. An Important Book - For Makers and Education Policy Makers
By CustomerI just finished reading The New Shop Class by Joan Horvath and Rich Cameron. This is an important book. Given all of the recent interest in making, and in related technologies like 3d printing, this book is very helpful to those who are looking for guidance in how to get started, and where to go for information. I read The New Shop Class on my Kindle. In the Kindle version there are links to helpful resources, and it was very easy to click on the links to

research more deeply into the areas addressed in the book. I really appreciated this feature. Regarding 3d printing, Horvath and Cameron provide detailed description and explanation of the 3d printing processes that currently exist, as well as the materials needed, and safety and cost issues. As they mention in the book, there is a steep learning curve involved in 3d printing. However, The New Shop Class is very helpful in providing ample resources for finding the answers that will help newbies. The New Shop Class also discusses the rise of makerspaces and hackerspaces that are opening around the country. The book points out that many of these spaces are being opened in libraries and museums. If you are at all interested in learning how to do this stuff, you will find the direction given in the book regarding makerspaces and hackerspaces invaluable! Starting in 3d printing, I ran into several roadblocks that would have been very difficult to get around if not for the help I received from people at places like these. The discussion regarding makerspaces and hackerspaces leads to another question implied by the book: Why are public schools and education policy makers not embracing this movement? I have been teaching in the Los Angeles area for over thirty years. In that time I have seen the closing of almost all of the shop classes and industrial education courses in the second largest educational institution in the country, and I know this has been a pattern in most of the school districts in the state of California. Now there is a movement in which students can learn STEM (science, technology, engineering, and math; some folks add art into the mix, calling it STEAM) subjects by actually doing, and they can do this safely and relatively cheaply, and in a way that is accessible to all students. Yet, rather than enacting state or district mandates to incorporate STEM and STEAM into the curriculum through making, it seems that it is up to individual teachers to incorporate these methods of learning by making in their individual classrooms, or it is left to the few motivated and knowledgeable parents who do this to enrich their own children's education. Read The New Shop Class. You will find it to be an excellent resource!

0 of 0 people found the following review helpful. Helpful and fun resource for parents and educators of future MakersBy jcanare While the title of this book implies that it is written for educators, it is also an invaluable resource for any nontechnical parent who wants to nurture their child's interest in 3D printing, Arduino, and other current technology trends. The book strikes a balance between instructional chapters that cover the fundamentals of these technologies (in unintimidating, layperson terms), as well as real-life case studies that show how kids and parents can find the support required to further develop such Maker skills. The tone of this book is consistently helpful, fun, and supportive. As the mother of a daughter, I also appreciate that the author shares some of the challenges she encountered as she pursued her own educational and career goals in a traditionally male-dominated field, and provides resources for advice and support.

0 of 1 people found the following review helpful. Five StarsBy Caroline Latham Got my money's worth with this book. Came as promised.

The New Shop Class connects the worlds of the maker and hacker with that of the scientist and engineer. If you are a parent or educator or a budding maker yourself, and you feel overwhelmed with all of the possible technologies, this book will get you started with clear discussions of what open source technologies like 3D printers, Arduinos, robots and wearable tech can really do in the right hands. Written by real "rocket scientist" Joan Horvath, author of Mastering 3D Printing, and 3D printing expert Rich Cameron (AKA whosawhatsis), The New Shop Class is a friendly, down-to-earth chat about how hands-on making things can lead to a science career. Get practical suggestions about how to use technologies like 3D printing, Arduino, and simple electronics. Learn how to stay a step ahead of the young makers in your life and how to encourage them in maker activities. Discover how engineers and scientists got their start, and how their mindsets mirror that of the maker. What you'll learn: What all of the big "maker" technologies are, what they can do, and how to get more information. Why scientists, citizen scientists, and makers do what they do -- and how they do what they do. Why breaking things is as important as making things. How portrayals of science differ from the real world. How to encourage the young scientists and makers in your life, or become one yourself. What scientists and makers can learn from each other. Who this book is for: Aspiring scientists, makers, teachers, students, and anyone who wants a guide to the vast and expanding world of makers and their tools and inventions.

About the Author: As an engineer and management consultant, Joan Horvath has coordinated first-of-a-kind interdisciplinary technical and business projects, helping people with no common vocabulary (startups, universities, small towns, etc.) work together. Her experience as a systems engineer has spanned software development, spacecraft flight operations, risk management, and spacecraft/ground system test and contingency planning. As an educator, Joan's passion is bringing science and technology to the non-specialist in a comprehensible and entertaining way that will stay with the learner for a lifetime.