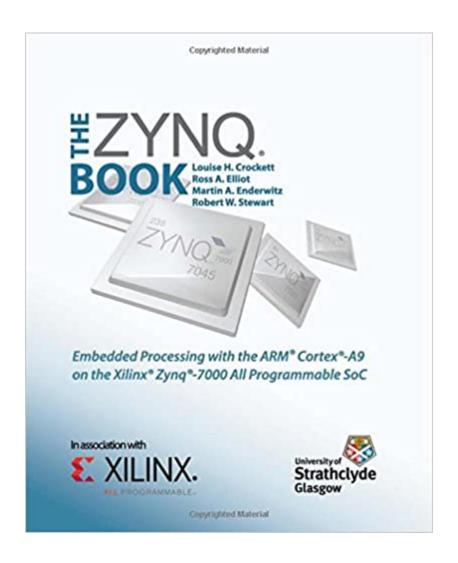


## The book was found

## The Zynq Book: Embedded Processing With The Arm Cortex-A9 On The Xilinx Zynq-7000 All Programmable Soc





## Synopsis

This book is about the Zynq-7000 All Programmable System on Chip, the family of devices from Xilinx that combines an application-grade ARM Cortex-A9 processor with traditional FPGA logic fabric. Catering for both new and experienced readers, it covers fundamental issues in an accessible way, starting with a clear overview of the device architecture, and an introduction to the design tools and processes for developing a Zyng SoC. Later chapters progress to more advanced topics such as embedded systems development, IP block design and operating systems. Maintaining a 'real-world' perspective, the book also compares Zyng with other device alternatives, and considers end-user applications. The Zyng Book is accompanied by a set of practical tutorials hosted on a companion website. These tutorials will guide the reader through first steps with Zyng, following on to a complete, audio-based embedded systems design.

## **Book Information**

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Average Customer Review:

3.7 out of 5 stars

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in Books > Computers & Technology > Hardware & DIY > Microprocessors & System Design

Customer Reviews

This book is a mixed bag. It has some useful sections, but too much of it is filled with extraneous material and boilerplate. Do we really need multiple chapters on descriptions of tools like Vivado HLS, or the history of Linux, or superficial explanations of real-time multitasking? Important stuff, like the Zynq boot sequence, is relegated to a final short chapter. Since this book was apparently sponsored by Xilinx, it's not surprising that much of it reads like a marketing brochure. It would have been much more useful to have a few completely worked out examples, like how to build embedded Linux for Zyng from scratch. To be fair, it does link to some on-line tutorials that are useful. If the

target audience is hobbyists without much knowledge of the basics of computing that professionals

take for granted, then I suppose there's a place for this book, but it's certainly not the definitive

practical Zynq reference I was looking for.

3 Stars = "it's OK"Cover to cover it is a bit repetitious telling you why the device architecture is so

great. It is pure marketing, once in the intro would be bad enough. It is written around the ZED and

similar boards. It walks you through the sample projects that come with the boards and the board

locked Vivado license. In the process you become more familiar with Vivado if you are transitioning

from Xilinx ISE and the top level architecture of the Zyng 7000. All good things but that is the end of

the story. You are running on a RTOS in the Zynq with a few hints on the architecture via the

opportunity to re-configure the memory or I/O. I was looking for something deeper like details on

how to configure the device with a GBE interface and shared memory from scratch or even a good

Hello World exercise. Something like the old Spartan 3 guides.

I am new to FPGAs and Xilinx software, so I was hoping that it would help me understanding how it

all comes together. I purchased it because the Contents at the beginning of the book was very

promising. However the actual contents of the book was extremely general - a common sense - and

most of it would apply to any other product or company. Unfortunately, it was absolutely useless to

me.

Excellent book on FPGA and Zyng

Good introduction to the Zyng development board, ARM processors, and Xilinx development tools if

you're new to the field and trying to gain some expertise.

Nice book that has all the fundamentals of the current Zynq device family from Xilinx. I'm going to

use it for future course I'm going to teach.

This book had a lot of information but I found it to be too much a packet of Xilinx propaganda.

fantastic book!

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The Zyng Book: Embedded Processing with the Arm Cortex-A9 on the Xilinx Zyng-7000 All

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