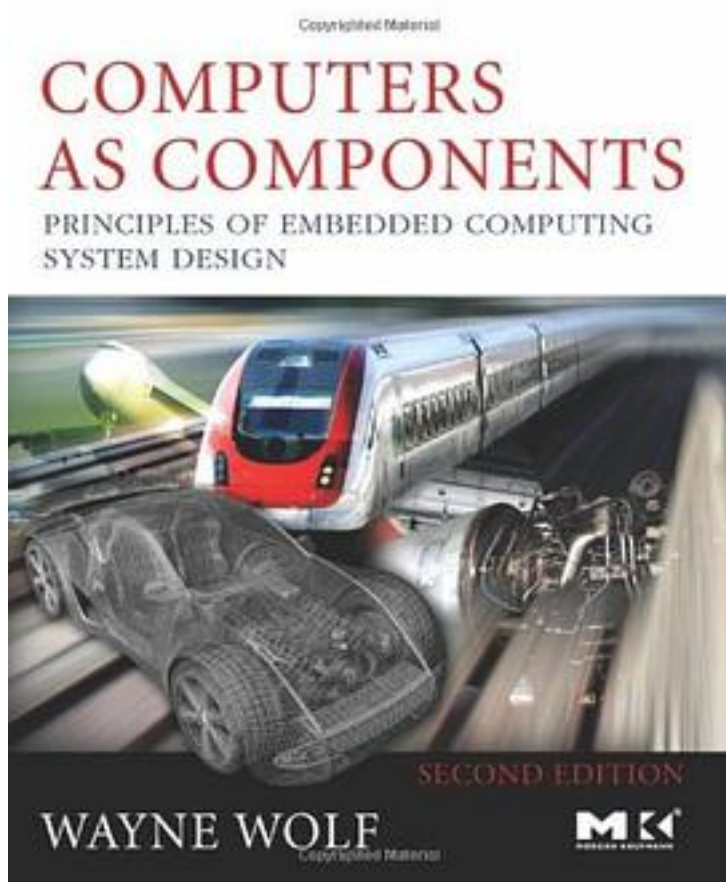# Computers as Components, Second Edition

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著者:Wayne Wolf

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This book was the first to bring essential knowledge on embedded systems technology and techniques under a single cover. This second edition has been updated to the state-of-the-art by reworking and expanding performance analysis with more examples and exercises, and coverage of electronic systems now focuses on the latest

applications. Researchers, students, and savvy professionals schooled in hardware or software design, will value Wayne Wolf's integrated engineering design approach. The second edition gives a more comprehensive view of multiprocessors including VLIW and superscalar architectures as well as more detail about power consumption. There is also more advanced treatment of all the components of the system as well as in-depth coverage of networks, reconfigurable systems, hardware-software co-design, security, and program analysis. It presents an updated discussion of current industry development software including Linux and Windows CE. The new edition's case studies cover SHARC DSP with the TI C5000 and C6000 series, and real-world applications such as DVD players and cell phones.

作者介绍:

Wayne Wolf is the Rhesa "Ray" P. Farmer Distinguished Chair of Embedded Computing Systems and Georgia Research Alliance Eminent Scholar at the Georgia Institute of Technology. Before joining Georgia Tech, Prof. Wolf was with Princeton University from 1989 to 2007 and with AT&T Bell Laboratories from 1984 to 1989. He received his B. S., M. S., and Ph.D. degrees from Stanford University in 1980, 1981, and 1984, respectively. He co-founded Verificon Corporation in 2003. He has been elected to Phi Beta Kappa and Tau Beta Pi. He received the ASEE/CSE and HP Frederick E. Terman Award in 2003 and the IEEE Circuits and Systems Society Education Award in 2006. He is a Fellow of the IEEE and ACM.

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书评

这是我读过的最好的专业书之一（也许能排到第一位）。它理所当然的应该是我读过的最好的教科书式的书。作者(IEEE和ACM的双料fellow)对书的feature描述如下： Uses real processors (ARM processor and TI C55x DSP) to demonstrate both technology and techniques…Shows rea...

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