## ARM Embedded Technology and Its Application - based on the Xscale processor and VxWorks operating systems



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## ARM EMBEDDED TECHNOLOGY AND ITS APPLICATION - BASED ON THE XSCALE PROCESSOR AND VXWORKS OPERATING SYSTEMS



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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 415 Publisher: 7-81124 Pub. Date :2007-9-1. This book describes the ARM-based embedded systems. ARM embedded development model and the basic development process. ARM architecture. ARM system hardware design. VxWorks software development processes. Contents: Chapter 1 ARM Embedded System based 11.1 11.2 basic concepts of embedded systems development process of embedded systems 41.4 21.3 ARM microprocessor embedded operating systems commonly used in embedded operating system 61.4.2 51.4.1 embedded operating systems real-time embedded systems applications 101.5 111.6 future trends of embedded systems 13 Chapter 2 ARM embedded development model and the basic development process 152.1 ARM embedded development model 152.1.1 online presence monitoring mode emulation mode 162.1.2 172.2 ARM embedded development needs analysis process 182.2.1 182.2.2 hardware design. system migration debugging 202.2.3 202.2.4 272.3 ARM debug application programming interface 28 embedded system control architecture Chapter 3 ARM 303.1 303.1 ARM microprocessor architecture .1 RISC microprocessor architecture 303.1.2 ARM register structure 313.1.3 ARM microprocessor command structure 313.2 ARM 323.3 ARM microprocessor architecture working state memory format instruction length and data type 323.4 333.5 processor mode 333.6 Register Organization 333.6.1 ARM state registers organization 343.6.2 Thumb state registers organization program status register 373.7 363.6.3 393.7.1 ARM architecture unusual exception types supported by the abnormal response 403.7.3 393.7.2 abnormal returns from the various anomalies of the specific description 403.7.4 413.7.5 423.8 ARM exception vector table 433.8.1 ARM assembly language programming instructions and format of the classification of the conditions of field instruction 433.8.2 443.8.3 ARM instructions. the addressing mode 443.8 .4 ARM instruction set 473.8.5 Thumb instructions and application 633.9 C language and assembly language programming 64 Chapter 4 Experimental system hardware design 674.1 PXA270 ARM About 674.2 CVT PXA270 microprocessor hardware Resources...

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