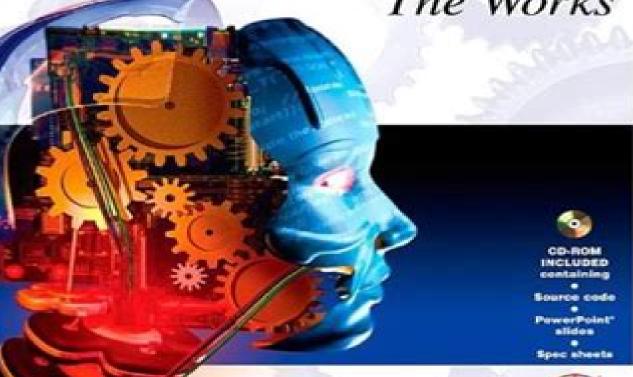


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date no book has directly addressed their need to develop the system and software for an ARM based system This text fills that gap This book provides a comprehensive description of the operation of the ARM core from a developer's perspective with a clear emphasis on software It demonstrates not only how to write efficient ARM software in C and assembly but also how to optimize code Example code throughout the book can be integrated into commercial products or used as templates to enable quick creation of productive software The book covers both the ARM and Thumb instruction sets covers Intel s XScale Processors outlines distinctions among the versions of the ARM architecture demonstrates how to implement DSP algorithms explains exception and interrupt handling describes the cache technologies that surround the ARM cores as well as the most efficient memory management techniques A final chapter looks forward to the future of the ARM architecture considering ARMv6 the latest change to the instruction set which has been designed to improve the DSP and media processing capabilities of the architecture No other book describes the ARM core from a system and software perspective Author team combines extensive ARM software engineering experience with an in depth knowledge of ARM developer needs Practical executable code is fully explained in the book and available on the publisher's Website Includes a simple embedded operating Information Systems Efrem G. Mallach, 2015-08-18 Most information systems IS texts overwhelm business system students with overly technical information they may not need in their careers This textbook takes a new approach to the required IS course for business majors For each topic covered the text highlights key Take Aways that alert students to material they will need to remember during their careers Sections titled Where You Fit In and Why This Chapter Matters explain how the topics being covered will impact students once they are on the job Review questions discussion questions and summaries are included in each chapter

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