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This book constitutes the thoroughly refereed post-proceedings of the Third Conference on Professional Knowledge Management - Experiences and Visions, WM 2005, held in Kaiserslautern, Germany in April 2005. The 82 revised papers presented were carefully reviewed and selected from the best contributions to the 15 workshops of the conference. Coverage includes intelligent office appliances, learning software organizations, learner-oriented knowledge management and KM-oriented e-learning.

This book is open access under a CC BY License. It provides a comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers. The collective work of experts from a dozen universities critically examines various aspects of higher mathematical education. The two EU Tempus-IV projects - MetaMath and MathGeAr - investigate the current methodologies of mathematics education for technical and engineering disciplines. The projects aim to improve the existing mathematics curricula in Russian, Georgian and Armenian universities by introducing modern technology-enhanced learning (TEL) methods and tools, as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm. MetaMath and MathGeAr have brought together mathematics educators, TEL specialists and experts in education quality assurance from 21 organizations across six countries. The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU, Russia, Geor-



gia and Armenia has been conducted, have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countries. The book presents the methodology, procedure and results of this analysis. This book is a valuable resource for teachers, especially those teaching mathematics, and curriculum planners for engineers, as well as for a general audience interested in scientific and technical higher education.

Contains comprehensive coverage of the new course, chapter summaries, research activities, glossary of terms and useful websites.

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Many coaches have said there are many things one can learn on a football field that are never taught in the classroom. This proved to be right for Murtagh when he applied the values of discipline, perseverance, and teamwork in facing the most turbulent times of his life. He conquered the crippling effects of polio and was able to succeed on the playing field and in the ring; and while working full-time to help support his family, he completed high school, college, and graduate school at night. Follow his inspiring journey-told with humor and honesty-and discover that indeed, Life is a Game.