This proposal constitutes an algorithm of design applying the design for six sigma thinking, tools, and philosophy to software design. The algorithm will also include conceptual design frameworks, mathematical derivation for Six Sigma capability upfront to enable design teams to disregard concepts that are not capable upfront, learning the software development cycle and saving development costs.

The uniqueness of this book lies in bringing all those methodologies under the umbrella of design and provide detailed description about how these methods, QFD, DOE, the robust method, FMEA, Design for X, Axiomatic Design, TRIZ can be utilized to help quality improvement in software development, what kinds of different roles those methods play in various stages of design and how to combine those methods to form a comprehensive strategy, a design algorithm, to tackle any quality issues in the design stage.

BASEM S. EL-HAIK, PhD, is the CEO and President of Six Sigma Professionals, Inc. (www.SixSigmaPI.com) and an author of many bestselling books on the subject of DFSS and Six Sigma. Dr. El-Haik holds a PhD in Industrial Engineering from Wayne State University and a Doctorate of Manufacturing Engineering from University of Michigan#Ann Arbor. He is a well-known figure in the robust design, reliability engineering, simulation, software engineering, Computer-Aided Robust Design (CARD), Computer-Aided Reliability (CAR), and DFSS for product, service, and process arenas.
ADNAN SHAOUT is Professor in the Electrical and Computer Engineering Department and Director for the Software Engineering Master Degree Program at the University of Michigan#Dearborn.

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