Introduction To Graphical User Interface Gui Matlab 6

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this book is concerned with the numerical implementation of finite element analysis using the computer program matlab which is very popular today in engineering and engineering education the book contains a short tutorial on matlab as well as a systematic strategy for the treatment of finite element method the book is directed towards both students and researchers in engineering various examples and exercises are provided out of mechanical engineering civil engineering aerospace engineering or materials science book jacket title summary field provided by blackwell north america inc all rights reserved

for a variety of reasons the matlab java interface was never fully documented this is really quite unfortunate java is one of the most widely

used programming languages having many times the number of programmers and programming resources as matlab also unfortunate is the popular claim that while matlab is a fine programming platform for proto

after more than 20 years of development matlab has evolved from a powerful matrix calculation application into a universal programming tool used extensively within scientific and engineering communities both commercial and academic matlab versions 6 x and 7 x include functionality for developing advanced graphical user interfaces guis and real time animation and graphics gui applications offer many advantages for users who wish to solve complex problems by providing interactivity and visual feedback some common examples of application areas where gui development is desirable image and video processing signal processing communications simulation of complex systems instrumentation and data acquisition interfaces control systems financial analysis animation of 2d or 3d graphical data this text introduces you to the capabilities of matlab for gui development and covers the following areas in detail handle graphics r programming and low level guis high level gui development using guide the structure of guis including event processing callbacks timers and real time animation of plots data advanced gui architectures including multiple figure guis and image mapped interface controls instructional examples and exercises are provided throughout each chapter that offers a hands on approach to learning matlab gui development the m file code for each example and exercise solution is available for download on the web to help you quickly learn how to develop your own guis about the author scott t smith received his msee degree from suny at buffalo in the fields of image sensor applications and image processing he currently works for micron technology inc in california as an imaging engineer and has 10 years of experience working with matlab and developing gui applications previous work experience includes 3 years at the david sarnoff research center former rca research labs in princeton nj as an associate member of the technical staff in the advanced imaging group as well 3 years as an r d engineer for an x ray scientific imaging company he is a member of spie and ieee and is an author or co author of several papers and patents in the field of imaging

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