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Hands-On Introduction to LabVIEW for Scientists and Engineers

John Essick

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Hands-On Introduction to LabVIEW for Scientists and Engineers takes a "learn-by-doing" approach to acquiring the computer-based skills used in daily experimental work. Ideal as a course textbook or a self-study supplement, the text explores practical programming solutions for carrying out interesting and relevant projects. Readers--who are assumed to have no prior computer programming or LabVIEW background--will begin writing meaningful programs in the first few pages. Instructors adopting the book as a classroom text can easily choose the desired depth of coverage for their courses. The first four chapters focus on the fundamentals of LabVIEW programming and the basics of computer-based experimentation using a National Instruments data acquisition (DAQ) device; these chapters provide the instructional materials necessary for a three-week introduction to LabVIEW-based data acquisition. A full-featured course that uses most of the text's chapters will bring students to an intermediate skill level in computer-based data acquisition and analysis.

Features

*__Flexible modular structure.__ The text's unique organization makes it suitable as either a short introduction to LabVIEW or a guide to more in-depth programming.
*Easy-to-implement **Express VIs** enable introduction of data acquisition in early chapters.
*__"Do It Yourself" projects at the end of each chapter.__ Each project poses an interesting "real-world" problem and loosely directs readers in applying the chapter's material to find a solution.
*__Homework problems at the end of each chapter.__ A wide selection of homework-style problems allows interested students to test their understanding and further develop their computer-based experimentation skills.

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