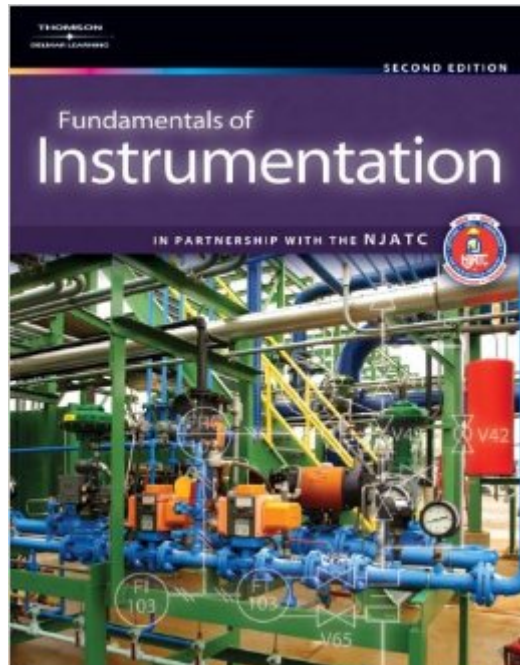


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# Fundamentals Of Instrumentation



## Synopsis

Using a distinctive blend of theory-based explanations and real-world applications, Fundamentals of Instrumentation, 2E will guide users through the basics of instrumentation - from installation to wiring, process connections, and calibration. The updated edition has improved readability and six new chapters covering the most critical topics in the industry such as loop checking, loop turning, troubleshooting, testing techniques, and more. This excellent learning tool can be used by anyone entering the field, or by a seasoned professional as a valuable reference on-the job. With the help of the book's detailed illustrations, diagrams, and practical examples; users will gain proficiency in mounting, wiring, impulse tubing, and the calibration principles of instrumentation. Check out our app, DEWALT Mobile Pro<sup>®</sup>. This free app is a construction calculator with integrated reference materials and access to hundreds of additional calculations as add-ons. To learn more, visit [dewalt.com/mobilepro](http://dewalt.com/mobilepro).

## Book Information

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## Customer Reviews

The second edition of this book is an improvement over the first edition. The illustrations are generally of good quality, and the photographs are excellent. Some of the factual errors in the first edition have been removed. However, this book still has a long way to go before it will be a valuable learning tool for students. My critique of the first edition noted poor writing quality, confusing math notation, and factual errors. This critique addresses those same three areas, listing specific problems by chapter and/or page number. [Writing quality] When I say this writing quality is poor, I

refer to clumsy prose and illogical statements. The author(s) struggle to convey concepts in clear language. Instead, the reader must interpret phrases such as these: "In instrumentation, calibration must be accurate, and accuracy is a direct method of determining if an instrument must be calibrated. This form of circular reasoning is intended to show the importance of an instrument's calibration expressed in accuracy." (page 21) "Pressure is a universal processing condition because all forms of life depend on pressure for survival." (page 37) "The specific gravity of alcohol is 0.79, and if we find the equivalent water-filled tank, we can use the specific gravity value to find the specific gravity of the alcohol." (page 46) "A displacer is often called a float. A float [displacer] never floats." (page 95) "Electrical capacitance is a fundamental concept for electricians that helps to explain the level measuring form of capacitance." (page 95) "With the large number of data points being monitored today, it is possible that a faulty reading on a thermocouple may not be faulty at all.

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