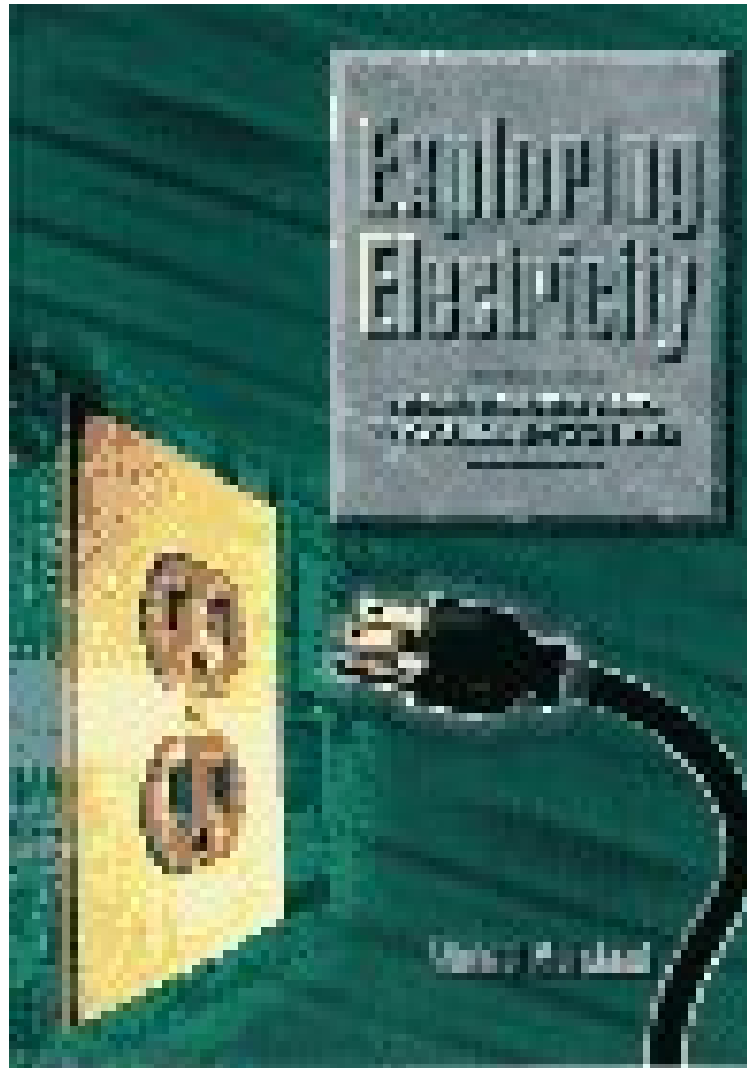


# Exploring Electricity: Techniques and Troubleshooting

*Michael Merchant*

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"Skill-Builder" that require no knowledge of algebra. Each example walks the reader through the solution of a math problem with margin notes identifying formulas, exploring key steps, and showing calculator keystroke sequences, and includes data for five repetitions of the problem to strengthen retention and build self-confidence. Provides the R.I.P.E. table for DC series-parallel analysis, offering a reliable method for circuit analysis that emphasizes fundamental electrical principles, and eliminating differences in reader aptitude. Maintains readers' interest with relevant hands-on material, helping them understand how electrical circuits and devices in their home and automobile work in the first few weeks of the course. Introduces math and formulas in small, digestible doses to give users time to absorb and master the math skills. For those in computer repair, consumer electronics repair, automotive electronics, aviation and marine electronics, and biomedical electronics.

From the Publisher: The first text in the Prentice Hall "Exploring" Series, this book provides strong, technician-level coverage of DC/AC electronics. Devoted to the students' needs and perspective, Merchant's reader-friendly style conveys the fundamentals of electricity with simple vocabulary, grammar and sentence structure that make the text accessible and comprehensible to students with highly diversified educational, technical and cultural backgrounds. From the Back Cover: Merchant's clearly written text views the fundamentals of electricity strictly from the readers' perspective, using simple vocabulary, grammar and sentence structure that make it comprehensible to those with highly diversified educational, technical, and cultural backgrounds. Begins each chapter with an interesting and plausible troubleshooting situation which the reader will be able to solve after studying the chapter. Replaces traditional math examples with unique "Skill-Builder" that require no knowledge of algebra. Each example walks the reader through the solution of a math problem with margin notes identifying formulas, exploring key steps, and showing calculator keystroke sequences, and includes data for five repetitions of the problem to strengthen retention and build self-confidence. Provides the R.I.P.E. table for DC series-parallel analysis, offering a reliable method for circuit analysis that emphasizes fundamental electrical principles, and eliminating differences in reader aptitude. Maintains readers' interest with relevant hands-on material, helping them understand how electrical circuits and devices in their home and automobile work in the first few weeks of the course. Introduces math and formulas in small, digestible doses to give users time to absorb and master the math skills. For those in computer repair, consumer electronics repair, automotive electronics, aviation and marine electronics, and biomedical electronics.