



Inquiry into Physics

By Vern J. Ostdiek, Donald J. Bord



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This text emphasizes conceptual understanding through an inquiry-based approach, using modern applications such as iPods, metal detectors, sundogs, kaleidoscopes, and smoke detectors to demonstrate the relevance of physics in our daily lives.

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Inquiry into Physics By Vern J. Ostdiek, Donald J. Bord Bibliography

- Sales Rank: #406092 in Books
- Brand: Cengage Learning
- Published on: 2012-01-01
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: .90" h x 8.40" w x 10.70" l, 2.55 pounds
- Binding: Paperback
- 576 pages

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Review

Prologue: Getting Started. 1. The Study of Motion. 2. Newton's Laws. 3. Energy and Conservation Laws. 4. Physics of Matter. 5. Temperature and Heat. 6. Waves and Sound. 7. Electricity. 8. Electromagnetism and EM Waves. 9. Optics. 10. Atomic Physics. 11. Nuclear Physics. 12. Special Relativity and Elementary Particles Epilogue. Appendix A: Winners of the Nobel Prize in Physics. Appendix B: Math Review. Appendix C: Answers. Glossary of Key Terms and Laws. Credits. Index. Table of Conversion Factors and Other Information. Periodic Table.

About the Author

Vern Ostdiek was an Associate Professor at Benedictine College, where he had a joint appointment in the Department of Physics and Astronomy and the Department of Mathematics and Computer Science. In addition to teaching courses in physics, mathematics, and computer science, he oversaw the Computer Discovery Lab. Vern was named Benedictine College's Educator of the Year in 1999. His research interests centered on the nocturnal dynamics of the lower part of the Earth's atmosphere. Past research topics included noctilucent clouds and frontal zones.

Don Bord, Ph.D., is Professor of Physics and Astronomy at the University of Michigan-Dearborn. Prior to his appointment, he taught at Benedictine College in Atchison, Kansas, where his collaboration with Vern Ostdiek led to the development and publication of INQUIRY INTO PHYSICS, now in its 8th Edition. Don has an abiding interest in physics and astronomy education, particularly as it pertains to laboratory instruction, and has published articles in *The American Journal of Physics*, *The Physics Teacher*, and *Sky and Telescope*. He was co-editor, with Clint Sprott, of the first edition of *Great Ideas for Teaching Physics*. Don's research focuses on determining the abundance of heavy and rare-earth elements in chemically peculiar stars and the Sun using high-resolution spectra. Don served as chair of the Department of Natural Sciences, associate dean for planning and faculty development and associate provost, interim chair of the Department of Health and Human Services in 2016. He was the first recipient of the University of Michigan's Jacqueline Lawson Award for his contributions in the area of faculty governance.

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