



Solitons: An Introduction (Cambridge Texts in Applied Mathematics)

By P. G. Drazin, R. S. Johnson

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Solitons: An Introduction discusses the theory of solitons and its diverse applications to nonlinear systems that arise in the physical sciences. Drazin and Johnson explain the generation and properties of solitons, introducing the mathematical technique known as the Inverse Scattering Transform. Their aim is to present the essence of inverse scattering clearly, rather than rigorously or completely. Thus, the prerequisites are merely what is found in standard courses on mathematical physics and more advanced material is explained in the text with useful references to further reading given at the end of each chapter. Worked examples are frequently used to help the reader follow the various ideas and the exercises at the end of each chapter not only contain applications but also test understanding. Answers, or hints to their solution, are given at the end of the book. Sections and exercises that contain more difficult material are indicated by asterisks.

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Bibliography

- Sales Rank: #196134 in Books
- Brand: Brand: Cambridge University Press
- Published on: 1989-03-31
- Original language: English
- Number of items: 1
- Dimensions: 8.98" h x .55" w x 5.98" l, .74 pounds
- Binding: Paperback
- 240 pages

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