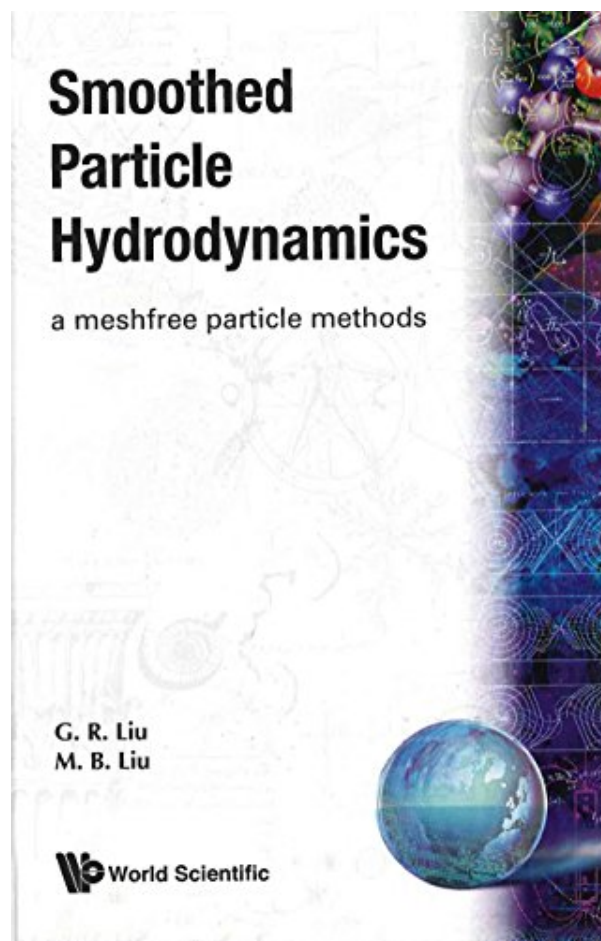


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Review

"? One of the unique features of the book is its emphasis on the computer implementation and coding of SPH method."

From the Publisher

Researchers, practitioners, upper-level undergraduates, graduate students, and academics in computational mechanics and engineering.

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This is the first-ever book on smoothed particle hydrodynamics (SPH) and its variations, covering the theoretical background, numerical techniques, code implementation issues, and many novel and interesting applications. It contains many appealing and practical examples, including free surface flows, high explosive detonation and explosion, underwater explosion and water mitigation of explosive shocks, high velocity impact and penetration, and multiple scale simulations coupled with the molecular dynamics method. An SPH source code is provided, making this a friendly book for readers and SPH users.

- Sales Rank: #1326031 in Books
- Published on: 2003-10-16
- Original language: English
- Number of items: 1
- Dimensions: 9.42" h x 1.13" w x 6.26" l, 1.82 pounds
- Binding: Hardcover
- 472 pages

Review

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From the Publisher

Researchers, practitioners, upper-level undergraduates, graduate students, and academics in computational mechanics and engineering.

Most helpful customer reviews

5 of 5 people found the following review helpful.

Good overview of SPH but beware.

By A. I. Haque

This book is a good overview of SPH. However, the source code in it should NEVER be used for any serious calculation. It uses the direct N^2 interaction algorithm to search for neighbors (VERY VERY VERY BAD!!!). Tree codes should be used for that instead and are not described in detail in the book. Also, some of the physics models in the book are explained only superficially. You will not be able to implement them with their information. For some reason these authors wrote a series of books on particle methods and none of them are particularly impressive. Going back to the original research articles is necessary.

1 of 1 people found the following review helpful.

Highly Lucid and Very useful for self-study

By Murali Venkatraman

I work at CSIRO - Melbourne which is adjacent to Monash University. Both Monash and CMIS (CSIRO)

have strong reputation in Smoothed Particle Hydrodynamics (SPH) techniques. Monash houses Prof. Monaghan (father of SPH) and CMIS houses Dr. Paul Cleary - one of the pioneers in SPH programming. There are wonderful reviews by Prof. Monaghan and many papers by Paul and others explaining the fundamentals.

However, I found this book to be the best for self-study. Prof. Hoover's book on SPAM may be taken as a supplement to this book, but for a beginner on a serious pursuit of SPH technique, Prof. Liu's book is simply outstanding.

The most striking feature of this book is the structure. It clearly describes the starting point, takes you through through the math and fundamental ideas of SPH method wonderfully well and culminates with algorithms to program it. Although, it talks a lot about shocks, which are irrelevant to me, it is probably the best introduction and exposition to the SPH method there is.

Chapter 1 provides the history. chapter 2 provides the bedrock of SPH. chapter 3 discusses elaborately in both physical and mathematical terms the construction of smoothing functions which form the pulse of SPH and chapter 4 formulates the Navier-Stokes in the required SPH form. That is, by the end of chapter 4, you are equipped with the knowledge of discretizing the N-S equations for programming !

The entire text is sprinkled with ample examples and necessary visuals in a language that is easy and clear. However no problems are present in the end, which is understandable since SPH is basically a computational technique.

I recommend this book to anybody who would like to learn SPH for programming.

1 of 1 people found the following review helpful.

Good book for introduction to SPH

By A. Taffo

I bought this book because I needed to learn the fundamentals of SPH, and it served its purpose perfectly. Also got it at a decent price!

See all 7 customer reviews...

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