

# Introduction to Hydrocodes, Volume 49 (Studies in Applied Mechanics)

By Jonas Zukas

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A hydrocode refers to a computer program used for the study of the dynamic response of materials and structures to impulse (primary blast), impact (involving everything from car and aircraft collisions to impacts of space structures by assorted debris).

The understanding of hydrocodes requires knowledge of numerical methods in the code as well as a keen understanding of the physics of the problem being addressed. This can take many years to learn via codes. There are currently a number of titles addressing the physics of high pressure and high rate material but nothing introducing the novice to the fundamentals of this highly technical and complicated study. *Introduction to Hydrocodes* bridges the gap, bringing together the large body of literature, scattered through diverse journals, government and corporate reports and conference proceedings. As valuable as the text are the cited references and the combination will take years off the preparation time of future code users.

- Introduces complex physics essential for the understanding of hydrocodes
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**Introduction to Hydrocodes, Volume 49 (Studies in Applied Mechanics) By Jonas Zukas Bibliography**

- Sales Rank: #2273511 in Books
- Published on: 2004-02-03
- Original language: English
- Number of items: 1
- Dimensions: 9.94" h x .69" w x 6.50" l, 1.61 pounds
- Binding: Hardcover
- 326 pages

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For newcomers to the field of computations of high rate events and for those who must interact with them

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