



Continuum Mechanics

By D. S. Chandrasekharaiah, Lokenath Debnath



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A detailed and self-contained text written for beginners, *Continuum Mechanics* offers concise coverage of the basic concepts, general principles, and applications of continuum mechanics. Without sacrificing rigor, the clear and simple mathematical derivations are made accessible to a large number of students with little or no previous background in solid or fluid mechanics. With the inclusion of more than 250 fully worked-out examples and 500 worked exercises, this book is certain to become a standard introductory text for students as well as an indispensable reference for professionals.

- Provides a clear and self-contained treatment of vectors, matrices, and tensors specifically tailored to the needs of continuum mechanics
- Develops the concepts and principles common to all areas in solid and fluid mechanics with a common notation and terminology
- Covers the fundamentals of elasticity theory and fluid mechanics

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Continuum Mechanics By D. S. Chandrasekharaiah, Lokenath Debnath Bibliography

- Rank: #3200860 in eBooks
- Published on: 2014-05-19
- Released on: 2014-05-19
- Format: Kindle eBook

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Editorial Review

About the Author

Lokenath Debnath is Professor of the Department of Mathematics and Professor of Mechanical and Aerospace Engineering at the University of Central Florida in Orlando. He received his M.Sc. and Ph.D. degrees in pure mathematics from the University of Calcutta, and obtained D.I.C. and Ph.D. degrees in applied mathematics from the Imperial College of Science and Technology, University of London. He was a Senior Research Fellow at the University of Cambridge and has had visiting appointments to several universities in the United States and abroad. His many honors and awards include two Senior Fulbright Fellowships and an NSF Scientist award to visit India for lectures and research. Dr. Debnath is author or co-author of several books and research papers in pure and applied mathematics, and serves on several editorial boards for scientific journals. He is the current and founding Managing Editor of the International Journal of Mathematics and Mathematical Sciences.

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