



Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering)

By *Mikhail Itskov*

Download now

Read Online 

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov

There is a large gap between the engineering course in tensor algebra on the one hand and the treatment of linear transformations within classical linear algebra on the other hand. The aim of this modern textbook is to bridge this gap by means of the consequent and fundamental exposition. The book primarily addresses engineering students with some initial knowledge of matrix algebra. Thereby the mathematical formalism is applied as far as it is absolutely necessary. Numerous exercises are provided in the book and are accompanied by solutions, enabling self-study. The last chapters of the book deal with modern developments in the theory of isotropic and anisotropic tensor functions and their applications to continuum mechanics and are therefore of high interest for PhD-students and scientists working in this area.

This third edition is completed by a number of additional figures, examples and exercises. The text and formulae have been revised and improved where necessary.

 [Download Tensor Algebra and Tensor Analysis for Engineers: ...pdf](#)

 [Read Online Tensor Algebra and Tensor Analysis for Engineers ...pdf](#)

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering)

By Mikhail Itskov

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov

There is a large gap between the engineering course in tensor algebra on the one hand and the treatment of linear transformations within classical linear algebra on the other hand. The aim of this modern textbook is to bridge this gap by means of the consequent and fundamental exposition. The book primarily addresses engineering students with some initial knowledge of matrix algebra. Thereby the mathematical formalism is applied as far as it is absolutely necessary. Numerous exercises are provided in the book and are accompanied by solutions, enabling self-study. The last chapters of the book deal with modern developments in the theory of isotropic and anisotropic tensor functions and their applications to continuum mechanics and are therefore of high interest for PhD-students and scientists working in this area.

This third edition is completed by a number of additional figures, examples and exercises. The text and formulae have been revised and improved where necessary.

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov **Bibliography**

- Sales Rank: #2588490 in Books
- Published on: 2012-08-13
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .69" w x 6.14" l, 1.28 pounds
- Binding: Hardcover
- 272 pages

 [Download Tensor Algebra and Tensor Analysis for Engineers: ...pdf](#)

 [Read Online Tensor Algebra and Tensor Analysis for Engineers ...pdf](#)

Download and Read Free Online Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov

Editorial Review

From the Back Cover

There is a large gap between the engineering course in tensor algebra on the one hand and the treatment of linear transformations within classical linear algebra on the other hand. The aim of this modern textbook is to bridge this gap by means of the consequent and fundamental exposition. The book primarily addresses engineering students with some initial knowledge of matrix algebra. Thereby the mathematical formalism is applied as far as it is absolutely necessary. Numerous exercises are provided in the book and are accompanied by solutions, enabling self-study. The last chapters of the book deal with modern developments in the theory of isotropic and anisotropic tensor functions and their applications to continuum mechanics and are therefore of high interest for PhD-students and scientists working in this area.

This third edition is completed by a number of additional figures, examples and exercises. The text and formulae have been revised and improved where necessary.

About the Author

Prof. Itskov studied Automobile Engineering at the Moscow State Automobile and Road Technical University, Russia. In 1990 he received his doctoral degree in mechanics, and in 2002 he obtained his habilitation degree in mechanics from the University of Bayreuth, Germany. Since 2004 he has been full professor for continuum mechanics at the RWTH Aachen University, Germany. His research interests comprise tensor analysis, non-linear continuum mechanics, in particular the application to anisotropic materials, as well as the mechanics of elastomers and soft tissues in a broad sense.

Users Review

From reader reviews:

Peter Cox:

Book is written, printed, or outlined for everything. You can understand everything you want by a guide. Book has a different type. As it is known to us that book is important matter to bring us around the world. Beside that you can your reading talent was fluently. A guide Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) will make you to be smarter. You can feel far more confidence if you can know about every little thing. But some of you think which open or reading a book make you bored. It isn't make you fun. Why they might be thought like that? Have you trying to find best book or suitable book with you?

Stephanie Dillard:

This Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) book is absolutely not ordinary book, you have it then the world is in your hands. The benefit you will get by reading this book will be information inside this publication incredible

fresh, you will get information which is getting deeper you actually read a lot of information you will get. This particular Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) without we realize teach the one who reading it become critical in considering and analyzing. Don't always be worry Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) can bring whenever you are and not make your carrier space or bookshelves' grow to be full because you can have it inside your lovely laptop even cell phone. This Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) having great arrangement in word and layout, so you will not feel uninterested in reading.

Charles Frye:

Reading a reserve tends to be new life style on this era globalization. With looking at you can get a lot of information that may give you benefit in your life. Along with book everyone in this world could share their idea. Guides can also inspire a lot of people. A lot of author can inspire all their reader with their story or even their experience. Not only the storyplot that share in the guides. But also they write about the information about something that you need instance. How to get the good score toefl, or how to teach your children, there are many kinds of book that exist now. The authors on earth always try to improve their skill in writing, they also doing some analysis before they write to the book. One of them is this Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering).

Rachel Morris:

Reserve is one of source of expertise. We can add our expertise from it. Not only for students and also native or citizen want book to know the change information of year to be able to year. As we know those ebooks have many advantages. Beside all of us add our knowledge, can also bring us to around the world. By the book Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) we can have more advantage. Don't you to be creative people? To get creative person must like to read a book. Just simply choose the best book that suitable with your aim. Don't always be doubt to change your life with this book Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering). You can more pleasing than now.

Download and Read Online Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov #IV7CTRNUW2E

Read Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov for online ebook

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov books to read online.

Online Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov ebook PDF download

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov Doc

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov Mobipocket

Tensor Algebra and Tensor Analysis for Engineers: With Applications to Continuum Mechanics (Mathematical Engineering) By Mikhail Itskov EPub