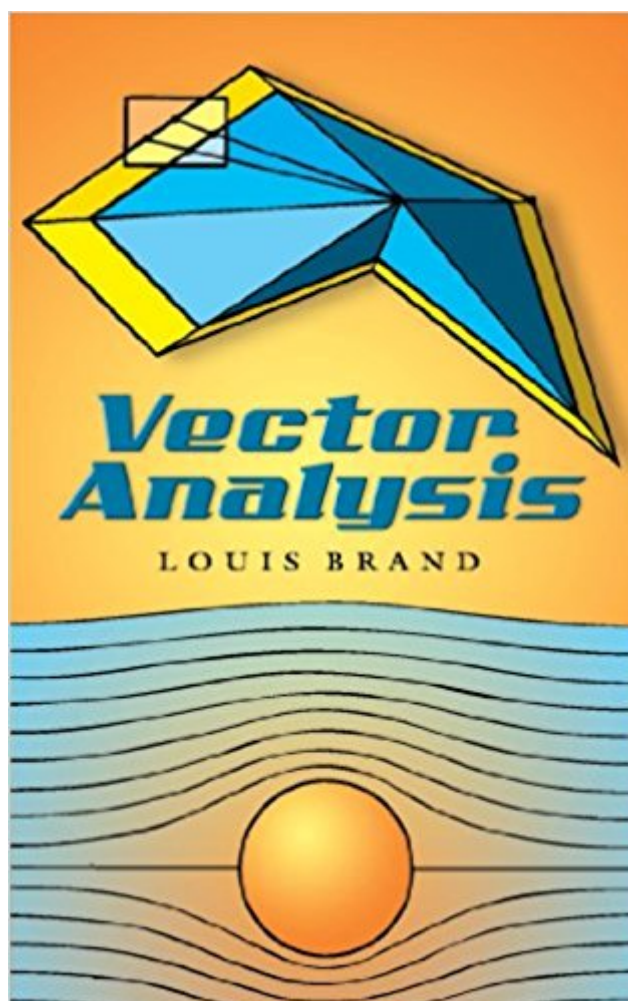The book was found

Vector Analysis (Dover Books On Mathematics)

Synopsis

This text for undergraduates was designed as a short introductory course to give students the tools of vector algebra and calculus, as well as a brief glimpse into the subjects' manifold applications. Uses of the potential function, both scalar and vector, are fully illustrated. 1957 edition. 86 figures.

Book Information

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Customer Reviews

L. Brand's Vector Analysis is a special book. Especially for physics students used to learning the subject from physics textbooks. There is a chapter for each of Newtonian mechanics, fluid mechanics, and electrodynamics. The postulates for each theory are clearly and explicitly stated (e.g. Maxwell's equations for electrodynamics). However those are merely applications of the mathematical theory. And the mathematics is absolutely beautiful. Much like analytic geometry, vector analysis conveys geometric information through algebraic equations. Though VA happens to be optimized for motion in 3 dimensions (e.g. a point moving along a curve).Before purchasing this book you'll want to know basic calculus. And some basic geometric facts: two intersecting lines in space, and 3 points in space, form a plane, the Pythagorean theorem, the SAS rule for similar triangles, etc. You might have to look up what a Jacobian is as well.

No doubt this is an excellent introduction to the topic. Plenty of examples, interesting applications, well-organized; even though the original edition dates back to 1957, I think it is still one of the best books on the subject. The first chapter shows the power of vector methods, and once one gets familiar with them (mathematical) life becomes easier. Physical and engineering problems are illuminating. I recommend it without reservations.

Excellent text for review. Solutions for all problems are provided. Will be utilized in conjunction with my other studies and projects.

Gr8. 9/10.

Some of the applications are new to me and enjoyed learning about them. I very much wish I had Prof Brand's book when I was a student 40 years ago.

I was looking for an introduction to vector analysis suitable for high school seniors taking calculus. The book in its own right is excellent but I felt was too advanced for my purposes.

Good book,good mind in a general study of vector analysis. Basic method in vector,for all students in mathematical frequency,direction and scalar. Good book in a reminder for vector from the author(L.Brand)in 1960's to now. Best foundation,fundamental and organization,for all other fields with best mind in vector for a long time.

thank you.

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