

Re: Need some help.

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- *From:* "amzoti" <amzoti@xxxxxxxx>
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Logan wrote:

What are some books that cover most of the topics learned in high school. We're talking geometry, algebra, calculus and statistics.

I'm looking for pretty dense material that also does a good job of describing the relationships between the different building blocks. It should be well ordered as well.

Is there an "Encyclopedia of math" as well?

Thanks,
Logan

If you are looking for applied and I understand the level of material you are looking for, there are examples in both engineering and physics.

For example:

1. Advanced Engineering Mathematics (Hardcover) by Dennis G. Zill, Michael R. Cullen
2. Mathematical Methods of Physics and Engineering (Paperback) by K. F. Riley, M. P. Hobson, S. J. Bence
3. Advanced Engineering Mathematics (Hardcover) by Peter V. O'Neil
4. Schaum's Outline of Advanced Mathematics for Engineers and Scientists (Paperback) by Murray R Spiegel

Tons more like these. Check them out on Amazon, Borders or Barnes and Noble and look inside at the TOC.

If you are looking for theoretical, then these are not the correct choice.

If you are looking for foundational understanding of these topics, you could look at things like:

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1. The Foundations of Mathematics (Paperback) by Ian Stewart, David Tall
2. Concrete Mathematics: A Foundation for Computer Science (2nd Edition) (Hardcover)
by Ronald L. Graham, Donald E. Knuth, Oren Patashnik
3. The History of Mathematics: An Introduction (Hardcover)
by David M. Burton

Tons more examples and some good paperbacks on how to think about mathematics.

Not sure if this is what you were looking for – but hope it gives some insights.

–A

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