

studying nanotechnology (was Re: [Sci.nanotech] plz help..)

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"Ankit" <ankit.devilmaster@xxxxxxxx> writes:

hi guys...i am a new member to this group and looking at the archives i think you people are highly proficient in this field...i am currently doing engineering in electronics..i want take course in nanotechnology for my mtech....can you plz take little pains to guide me where to start and which are gud to start from as i am complete novice as far as this field is concerned...

Depending on how you define it, it is either pretty easy to find a classes in nanotechnology, moderately difficult to find a classes in nanotechnology, or downright impossible to find a class in nanotechnology. I'll explain what I mean, but it is going to take quite a bit of space. You've been warned in advance.

First, a long word on the field itself:

1) The Field, as it exists today:

Lets start by bearing in mind that there basically isn't much out there right now in the real world that you could honestly call "nanotechnology" — at least not outside of what the genetic engineering/synthetic biology folks do. (I count their work because they're hijacking natural molecular machines for human purposes.)

Many people are under the impression that nanotechnology is something you can go out right now and "do", but it isn't. It is a research field, many years from fruition for the most part.

It doesn't matter if you've read that "Pants With Nanotechnology!(TM) To Repel Stains!" are on the market — that's just a case of people renaming their work "Nanotechnology" to hop on a hype bandwagon. It is kind of neat that people have come up with cool new synthetic chemicals that repel stains, and such people deserve to make plenty of money, but using the name "Nanotechnology" for such things is pure

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marketing.

Most of what you'll find out there that calls itself "nanotechnology" calls itself that for marketing reasons. Molecules are very small, but that doesn't make synthetic organic chemistry "nanotechnology", at least not if the term is going to mean very much. I think synthetic organic chemistry is a really fascinating field, but it has been around for quite some time and does not involve the creation of atomically precise machines that weigh hundreds of thousands or millions of daltons. Similarly, materials science is a crucial area of st