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engineering, normally  
takes what she calls an  
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1Electronic, magnetic and optical materialsThis course from MIT's Department of Materials Science and Engineering introduces the fundamental principles of quantum mechanics, solid state physics, and electricity and magnetism. We use these principles to describe the origins of the electronic, optical, and magnetic properties of materials, and we discuss how these properties can be engineered to suit particular applications, including diodes, optical fibers, LEDs, and solar cells.Electronic, Optical, and Magnetic Properties of Materials ...In the final course, 3.15x: Electrical, Optical, and Magnetic Materials and Devices, you will take the

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are materials that possess a macroscopic spontaneous polarization that can be reoriented through the application of an external electric field (Schlom et al 2007) Polarization in ferroelectric materials can exist in the absence of an electric field under certain ranges of temperature and pressure Ferroelectric materials have crystal structures that lack inversion symmetry Electronic, Magnetic, and Optical Materials- Alastair N. Cormack, Alfred University, New York, USA "Electronic, Magnetic, and Optical Materials delivers what it promises: a comprehensive overview of the electronic, magnetic, and optical properties of a wide range of

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