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A 9TH-12TH GRADE CURRICULUM

Routledge In order for students to compete in today's global economy, our schools need to help them develop better cognitive and technological skills. School counselors have an enormous impact on students' achievement and their success in their post-secondary education, yet initiatives to improve student outcomes often overlook them. Fitzpatrick and Costantini present their own action-based curriculum for high school counselors that will meet the needs of 21st century students, helping to foster their growth and ambition and actively engage them in learning what they need to succeed beyond high school. Important steps covered in this curriculum include Making the transition to ninth grade successful Using technology in the advising process, such as online resources for college and career research, assessing interests, and structuring advising sessions Preparing for standardized testing and using it to motivate students about the college application process Assisting students in researching careers and colleges, making the most of college visits, applying for college, and writing the application essay Equally important, the book focuses on the counselor and his or her role as an advocate and leader for students and details running a guidance office, working with parents, and writing Secondary School Reports. While applicable for all school counselors and students, the authors' curriculum has a special focus on students in urban public schools to enable them to have the same experiences as their counterparts in suburban and private schools. Accompanying downloadable resources contain the tables, exercises, and charts from the book so they can be easily accessed and reproduced.

ROCK MECHANICS

FOR UNDERGROUND MINING

Springer Science & Business Media This new edition has been completely revised to reflect the notable innovations in mining engineering and the remarkable developments in the science of rock mechanics and the practice of rock engineering that have taken place over the last two decades. Although "Rock Mechanics for Underground Mining" addresses many

of the rock mechanics issues that arise in underground mining engineering, it is not a text exclusively for mining applications. Based on extensive professional research and teaching experience, this book will provide an authoritative and comprehensive text for final year undergraduates and commencing postgraduate students. For professional practitioners, not only will it be of interests to mining and geological engineers, but also to civil engineers, structural mining geologists and geophysicists as a standard work for professional reference purposes.

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Rarebooksclub.com This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1890 edition. Excerpt: ...or steel there is great waste of energy. Hysteresis may be regarded as a species of molecular magnetic friction by reason of which alternate magnetizations cause iron to be r heated. FIG. 17. The area enclosed by the curve represents the loss due to magnetization at the given rapidity of alternations. Dr. John Hopkinson has calculated this loss in ergs per cubic cm. for a complete magnetic cycle, when values of H are between the limits 4-240 and--240. (See Table B on next page.) In a magnetic circuit the hysteresis isof small importance if an air-gap exists, and its influence decreases the greater the num. ber of lines which pass through the air. Residual magnetism in electro-magnets is a phenomenon of hysteresis. Hysteresis in electro-magnets increases with their length. The practical elimination of hysteresis in measuring instrumeuts which contain iron is of importance; otherwise their usefulness is impaired. The errors arising from hysteresis can be reduced by introducing the instrument into circuit only at times for observations, so that the magnetization always rises from zero to the indicated amount, or by bringing a strong magnetization into the vicinity before the measurement, for example, the spring galvanometer of Kohlrausch, in which the armature is lowered down into the coil before the reading. "Mitis" metal has been employed by certain makers of motors in place of wrought iron for magnet cores. This, along with other "cast" wrought irons low in carbon and soft, possesses a high susceptibility, and the fact that they may be cast in suitable forms makes them desirable for the purpose. o. Influence of Temperature on Magnetization. Iron.--Up to about 3COC. the magnetization is quite independent of the...

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