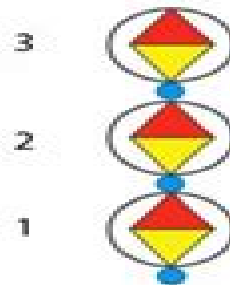


- Hence, one line of magnetic field of earth is traced.



(a) Plotting a field line with a compass needle



(b) Lines of uniform magnetic field of earth

Starting from a different point, the process is repeated and another line of magnetic field is traced out. This way a few several lines of magnetic field can be traced out. Every line is required to be labelled with the help of an arrow from the south pole of the needle towards the north pole to represent the direction of the magnetic field. The figure below depicts several magnetic lines that are obtained this way.

19. Can two magnetic field lines intersect each other? Give reason to your answer.

Solution:

No, two magnetic field lines do not intersect each other. If they would intersect, there would be two directions of the field at the specific point which is not possible.

20. In figure, draw at least two magnetic field lines between the two magnets.



Solution:

- (a) Since the north poles of both the magnets are facing each other, they repel. Hence the magnetic field lines would look like this

Mastering Physics Solutions Chapter 8

Christian Drosten



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Calculus and Analytic Geometry Al Shenk, 1979 **Quantum Mechanics** Nouredine Zettili, 2009-01-22 *Quantum Mechanics Concepts and Applications* provides a clear balanced and modern introduction to the subject Written with the student's background and ability in mind the book takes an innovative approach to quantum mechanics by combining the essential elements of the theory with the practical applications it is therefore both a textbook and a problem solving book in one self contained volume Carefully structured the book starts with the experimental basis of quantum mechanics and then discusses its mathematical tools Subsequent chapters cover the formal foundations of the subject the exact solutions of the Schrödinger equation for one and three dimensional potentials time independent and time dependent approximation methods and finally the theory of scattering The text is richly illustrated throughout with many worked examples and numerous problems with step by step solutions designed to help the reader master the machinery of quantum mechanics The new edition has been completely updated and a solutions manual is available on request Suitable for senior undergraduate courses and graduate courses Fourier Acoustics Earl G. Williams, 1999-06-16 *Fourier Acoustics* develops the theory of sound radiation completely from the viewpoint of Fourier analysis This powerful perspective of sound radiation provides the reader with a comprehensive and practical understanding which will enable him or her to diagnose and solve sound and

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