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direction length and proximity of the electric current the biot savart law named after french scientists jean baptiste biot and felix savart is a fundamental principle in electromagnetism the law describes the magnetic field that arises from an electric current or a collection of moving charges the biot savart law tells us that delta b frac i delta s sin theta r 2 this law will enable us by integrating it around various electrical circuits to calculate the total magnetic field at any point in the vicinity of the circuit this video describes the biot savart law and explains each part of the equation the biot savart law is a mathematical description of the magnetic field d that arises from a current i flowing along an infinitesimal path element d called the current element the four properties of the magnetic field are as follows learn how to calculate the magnetic field produced by a current in a wire using the biot savart law see the formula the problem solving strategy and examples of applying the law to different geometries of current elements biot savart s law is a physical equation that tells about the magnetic field produced by a segment of wire that carries the current the segment of the wire is considered as the better quantity and is also called the current element

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below we use the biot savart law to derive an expression for the magnitude of the magnetic field at a distance h from the center of a ring of radius r along its axis of symmetry when there is a current i in the ring

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this video describes the biot savart law and explains each part of the equation

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