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- The magnetic field of filamentary coils is calculated bt Biot-Savart Law, involving a line integral. J. Hanson and S. Hirshman had a better representation for straight segments to avoid unnecessary sigularities and improve numerical error at points neary the coil.
- But currently, we use the normal expression of Biot-Savart Law and derivatives of B with repsect to x, y, z is also calculated.
- Later, error analysis and comparison to Hanson’s method should be carried out.