



# The Girl Was Mine

**Hongru Du**



**The Girl Was Mine:**

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web the magnetic field that results from powering the coils is present whether the beam is there or not we are interested in

finding the field in this aperture and also in knowing how to build a magnet to get the desired field typically accelerators and beamlines have magnets that serve individual functions

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web number of conductor turns in a coil is  $n$  magnetic field strength  $H = \frac{1}{4\pi} \frac{NI}{r}$  magnetic flux  $\Phi = \frac{1}{\mu} NI$  vs assignment design a 90 degree bending magnet for beam analysis with the duoplasmatron

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web where  $H$  is the strength of the magnetic field in ampere turns metre at  $m$   $n$  is the number of turns of the coil  $i$  is the current flowing through the coil in amps  $l$  is the length of the coil in metres  $m$  then to summarise the strength or intensity of a coil's magnetic field depends on the following factors the number of turns of wire within the coil

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