



# Emc Nx4 User Guide

**Lingsheng Yao**



## **Emc Nx4 User Guide:**

**Standards Catalogue** ,1998      **Products and Services Catalogue** ,1999      BSI Standards Catalogue ,1997

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956 m deflection angle 22 5 degree strength 0 3411 m 2 gradient 2 84 t m gap height 42 mm 0 6 0 8 1 1 2 1 4 1 6 field t

magnetic length 2 340 m iron length 2 274 m total length 2 47 m current 643 a turns 80 conductor 13 13 mm

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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 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 coils magnetic field depends on the following factors the number of turns of wire within the coil

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web a superconducting magnet is an electromagnet made from coils of superconducting wire they must be cooled to cryogenic temperatures during operation in its superconducting state the wire has no electrical resistance and therefore can conduct much larger electric currents than ordinary wire creating intense magnetic fields