

Abstract Submitted
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Magnetic and transport properties of $\text{Fe}_{1-x}\text{Co}_x\text{Sb}_2$ RONGWEI HU,
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— Anisotropic magnetic and electronic transport measurements were carried out
on large single crystals of $\text{Fe}_{1-x}\text{Co}_x\text{Sb}_2$, grown by self flux method, in the temper-
ature range 1.8-350K for $0 \leq x \leq 1$. The diamagnetic semiconducting state of FeSb_2
evolved into metallic by substitution of Fe with Co for $x < 0.5$. With further doping
there was a structural transformation from orthorhombic Pnm structure of FeSb_2
to monoclinic P21/c structure of CoSb_2 . Large magnetoresistance and anisotropy
in electronic transport were observed.

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