] î0 5r • KAWASAKI STEEL GIHO Vol.24 (1992) No.1

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Displacement Sensors Using Amorphous Magnetic Alloy, "LINEAR ACE"

%®4Š %\$(Tadashi Yabe) È5 ‡/œ(Toshiyuki Mizuno) ±5 À'v (Masaaki Ohno) &Å £ J – (Takeshi Akiyama)

Synopsis:

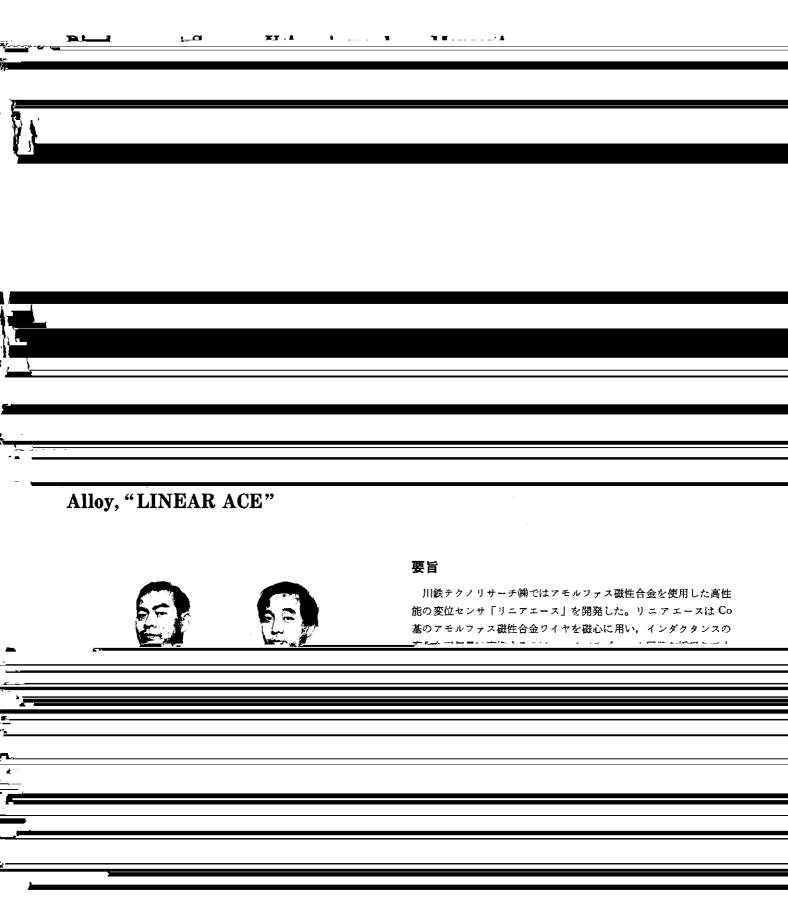
Kawa saki Steel Techno Research Corp, has developed and marketed a displacement sensor, "LINEAR ACE", that uses magnetic core of Co -based amorphous alloy wire. LINEAR ACE is a new type sensor, using a selfexcitation circuit (multi- vibrator), that enables a high-speed response and a very small outline. The authors improved the operating temperature to 180 ¥ and the sensor head size, in addition to reducing the magnetic core weight only to 0.1g, allowing measurements to be achieved without impressing any load on the target measurement object, and allowing the coil current to be reduced to 2 mA. LINEAR ACE has received favorable responses from users.

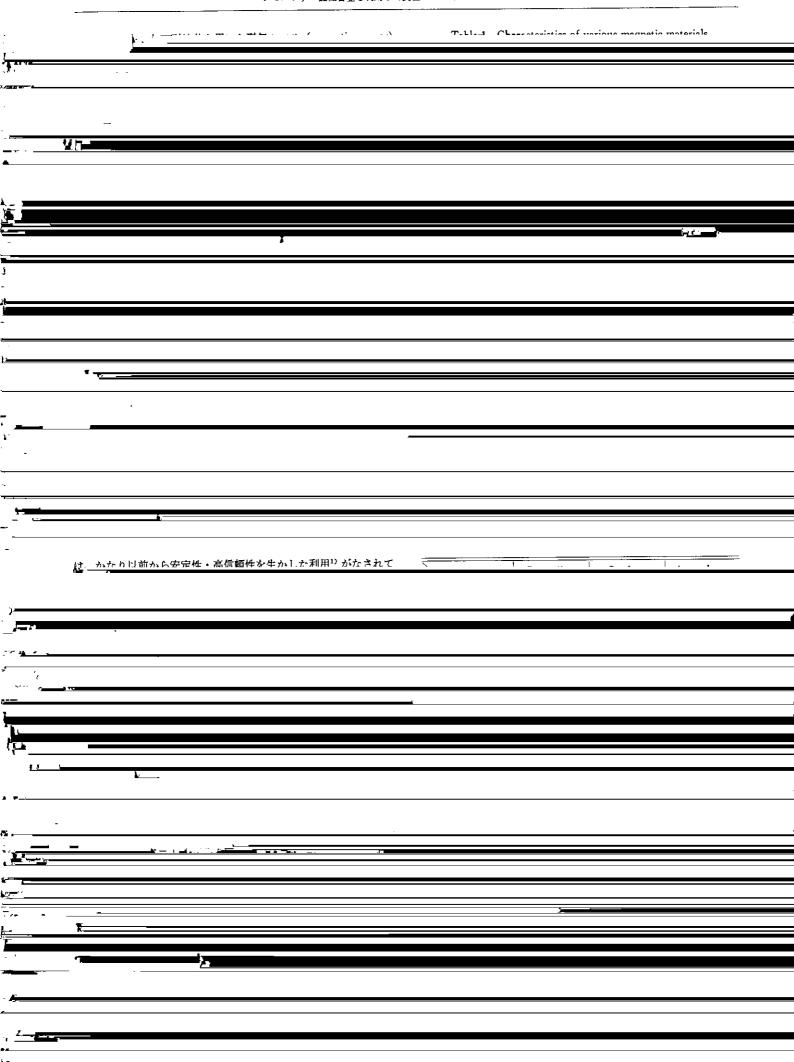
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川崎製鉄技報24 (1992) 1, 68-73

アモルファス磁性合金を利用した変位センサ 「リニアエース」の開発*





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