

## CONCLUSION

Vacuum melted alloys available today and our knowledge of the influence of the heat treatment upon magnetization processes allow a very good control over the shape of the hysteresis loop and the variation of the initial and incremental permeability with temperature. Reliable differential transformers with  $\mu_{40} > 40,000$  over the temperature range from  $-35^{\circ}\text{C}$  to  $+66^{\circ}\text{C}$  after dc shock are presently in large-scale production (Fig. 8). Their economy, diminutive size, and great sensitivity make possible modern 5 mA GFI units (Fig. 9)<sup>1</sup> protecting the public against the trauma of electrical shock, bodily injury, and possibly death.

<sup>1</sup> Courtesy of Bryant Electric.

## REFERENCES

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