

## THE USE OF MICROPROCESSORS IN SAFETY SYSTEMS

Microprocessors are an attractive alternative to wired logic in railway control systems, but in many applications their use is dependent upon the development of redundancy techniques for satisfying the stringent safety and availability requirements.

This memorandum is an extract from an article to be published in the September 1976 issue of the journal "Microprocessors". Techniques are described which avoid the use of conventional comparison and voting circuitry and overcome the synchronising problems which arise with parallel redundancy.