

## **Quantitative Evaluation Method of Lifetime Prolonging Measures for Electronic Signalling Equipment**

Hiroyuki FUJITA    Ken TAKASAKI    Takuro SHINDO    Tsuyoshi KAMIYA

There is a strong need for prolonging the lifetime of electronic signalling equipment to reduce the replacement costs. On the other hand, the availability of equipment has become an issue due to the recent shortage of semiconductors. Since the actual lifetime of electronic signalling equipment depends on the lifetime of the electronic components and solder joints with the substrates, it is possible to prolong the lifetime by selecting suitable electronic components and improving the environment of use. In this paper, a method for quantitatively evaluating the effect of lifetime prolonging measures was investigated utilizing the developed method for evaluating the lifetime of electronic signalling equipment.