

**Development of an on-board Earthquake Early Warning
Receiving Unit using Satellite Broadcasting**

Masahiro KORENAGA Naoyasu IWATA Kimitoshi ASHIYA

We have developed an on-board Earthquake Early Warning receiving unit using satellite broadcasting, and have confirmed the reception performance and proper system action. As a result of the various tests executed by us, there has been detected nothing wrong with the basic technology, so, it is considered that we can put the developed device to practical use. In case the developed receiving unit is installed on a vehicle, the relevant information can be expected to be conveyed to train, without installup a ground equipment along the railway route. Although S band satellite broadcasting used for our tests has been stopped since March, 2009, this device can be made use of after restart the S band satellite broadcasting.