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SUMMARY

Development of a Train Simulator for Diesel-Hybrid Railcars and Locomotives
Tomoyukii OGAWA

Diesel-hybrid railcars and locomotives equipped with energy storage devices have been developing and introducing as an alternative to conventional diesel railcars and locomotives. Effective use of energy storage devices of the hybrid trains leads various advantages comparing to diesel trains. Thus, various hybrid system configurations have been proposed. We have developed a train simulator of diesel-hybrid railcars and locomotives that is able to be adapted to various hybrid system configurations.

Introduction of Series 1000 EMU on Ginza Line of Tokyo Metro
Takao OKA

The Ginza line is the first subway in the Orient, which has begun commercial service between Asakusa and Ueno in 1927. The old class 1000 EMU was the cars adopted the newest technology such as ATS and all-steel car-body, which were the first in Japan. Succeeding series 01 EMU also has passed a little less than 30 years. So the obsolescent technology and the deterioration of equipment became conspicuous. Then, we newly manufactured the series 1000 EMU.

Advancing Content Network Delivery Systems
Hidehiro SHIMIZU

We have developed the new system “Integrated type MEDIAWAY” by integrating the digital signage systems for onboard and those for station premises. Through integration of the works of content edit and delivery, the system makes the operation very efficient based on the concept of one source for multiple-use, and facilitates to handle rich contents. This paper describes the issues of the content network delivery systems used for digital signage and the newly developed “Integrated type MEDIAWAY”.

Project for Assisting the Establishment of Operation and Maintenance Company for the Urban Railway in Ho Chi Minh City
Tetsuro AIKAWA

Construction of urban railways in Asian cities has been on the rise in recent years. Since 2008, construction of the Urban Railway Line 1 in Ho Chi Minh City through Japan’s ODA, which includes an EPC package for the training of train operation personnel, is underway. Furthermore, a JICA Technical Cooperation project to help establish an operation and maintenance company has also started in April 2011. This article gives an overview of the project and discusses the major issues.

Creation of Attractive Station Space Connecting to Local Area
Yosuke FUJIKAWA

Kaminoge station in the Tokyu Oimachi line is a station of about 21,000 passengers per day located in Setagaya ward, Tokyo. In accordance with the express operation commencement in the Oimachi line in March 2008, the rebuilding of the station has been carried out. In this article, we introduce the plan outline of Kaminoge station, which has a building concept of “station design for a regional contribution” through design and functional aspects.

ENGINEER TRAINING

Establishment of “Safety Creation House”
Toshimitsu HIGASHINO

FACTS & ANALYSIS

- Change of the proportion of labor and capital costs to revenue
- Change of productivity
- Change of double track and electrification rate

NEWS

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