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Fundamentals of Railway Design Marco Guerrieri, 2023-02-13 This textbook examines key railway engineering topics useful for railway design and control. Conventional railways are considered together with high speed railways, tramways, metros, maglev, and hyperloop systems, people movers, monorails, and rack railways. Every system of transport is described in its basic technical characteristics, especially in terms of transportation system capacity, alignment design criteria, and construction costs. It is an introductory book to specific topics of the railway engineering field and thus the mathematical treatment is purposely brief and simplified. The book is an ideal learning resource for students of civil engineering as well as a valuable reference for practicing engineers involved with railway designs.

**Proceedings of the International Conference on Railway and Transportation (ICORT 2022)** Willy Artha Wirawan, Moch. Agus Choiron, Dian M. Setiawan, 2023-03-31 This is an open access book. Politeknik Perkeretaapian Indonesia Madiun, Indonesia, presents ICORT 2022 Innovative for Smart Sustainable and Safe Transportation Systems as its main focus.

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