





Technical Features of Steel Structure Construction by Kawasaki Steel*

Synopsis:

Steel structures are widely used in various fields of construction.

scale structural experiments, as well as research on techniques for durability improvement which includes fatigue, brittle fracture, and corrosion resistance.

which makes it possible to predict the mechanical behavior of the said parts with high accuracy.

The requirements of joining work in beam-column

2.1.3 Efficiency improvement in steel skeleton

space below roadways,¹¹⁾ and is currently taking orders





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design and economy and is therefore expected to be used in practical applications in port structures.

3.2.2 Shore protection structures

Steel sheet pile and sheet pipe pile, which are principal construction materials for civil engineering, are used as the outer shell in sand-filled "double-walled

and a slit type wave dissipation revetment has been developed as a structure which applies wave dissipation techniques. This structure is simple, comprising steel pipe piles placed at appropriate intervals, but can easily realize a wave dissipation ratio of about 50%.

4 Other Structures

- yasu, and M. Nishimura: "Development of Steel Box Column RIVER BOX W by KX Welding Method", *Kawasaki Steel Giho*, 8(1976)1, 116
- 2) T. Yamasaki and S. Takizawa: "Experimental Study on Pull-Off Tests of Reinforcement Bars in Concrete Columns Used of RC Slab", Proceedings of the 44th Annual Conference of the Japan Society of Civil Engineers, Oct. (1989) 504-505
- 17) T. Wakinaga, T. Furuta, S. Nakamura, T. Sakimoto, Y. Kubo, and M. Minato: "Development of Lightweight Concrete

- Super Heavy H-Shape", *Transaction of the Architectural Institute of Japan*, No. 252, (1977), 23-31
- 3) S. Kikukawa, H. Okamoto, et al.: "Deformability of Cold Formed Rectangular Hollow Sections", *Journal of Construction*, 14(1976)1(1977), 503-508
- 18) T. Yamasaki, and Y. Kawai: "Fatigue Strength of Stiffening Frame in Guideway Beams for Suspended Monorail System," *Transactions of the Japan Society of Civil Engineers*, 45(1989), 79-83
- Bridge for Pipeline", *Kawasaki Steel Giho*, 27(1995)4, 209-216