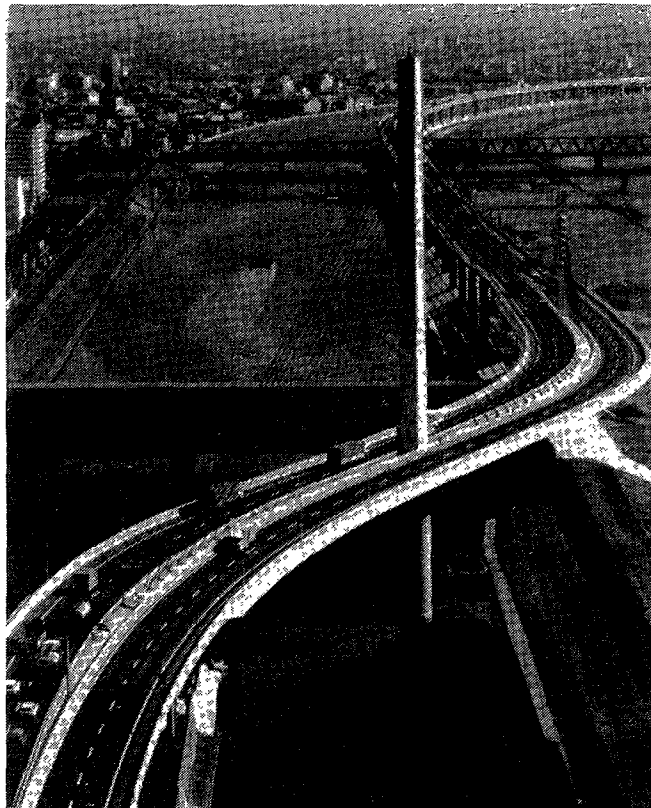


AESTHETIC CONSIDERATION OF SYMMETRY ON
A S-CURVED CABLE-STAYED BRIDGE

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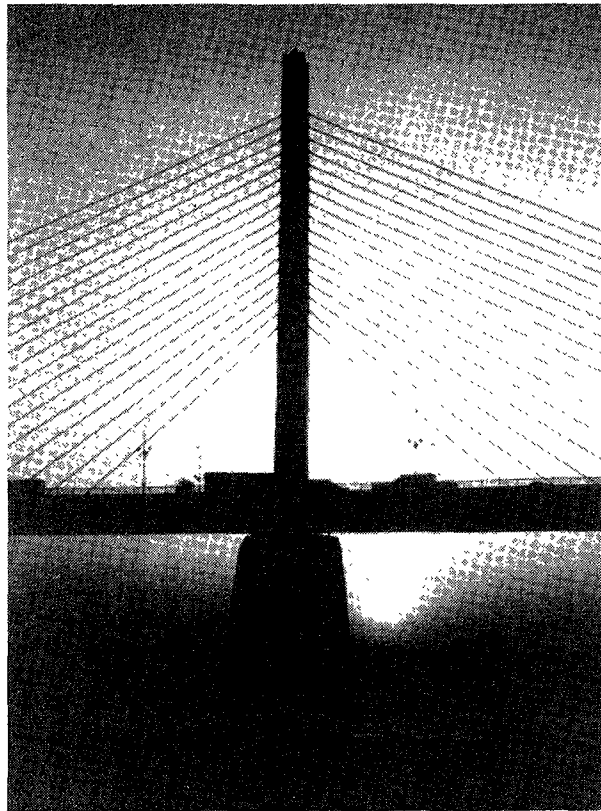


Abstract

Photo: M Fujitsuka

This paper considers an aesthetic study of a bridge structure, giving a practical example of a S-curved Cable-stayed Bridge in Japan, the writer was involved in the aesthetic design phase of the project.

Most bridge structural projects / results are reported by the engineers. On the other hand, very few papers by designers or architects state aesthetics as an influence for visually good design. The paper tries to create a bridge between structural engineering (Science) and geometric figures (Art) essentially from an aesthetic point of view.



References

- Billington D.P. and Oeodatis G. Form and Aesthetics in cable -stayed bridge, Cable-stayed Bridge -Recent Developments and Their Future, 1991, Ito M.,the editor, Elsevier
- Gimsing N.J. Cable Supported Bridge -Concept and Design, Japanese Edition by Ito M., 1983 , John Wiley & Sons Ltd.
- Toda T., Yamazaki K., Ando K., S-curved Bridge Project, Kyoryo to Kiso 1983 vol. 17-9, p.11-18, Kensetutosho
- Takahashi S., Yamazaki K., Ando K., S-curved Bridge superstructure design-1, Kyoryo to Kiso,1985 vol.19-4, p.25-33, Kensetutosho
- Takahashi S., Yamazaki K., Ando K., S-curved Bridge Superstructure Design -2 Kyoryo to Kiso,1983 vol.19-5, p.31-40, Kensetutosho
- Takenouchi K. S-shape Bridge on the Metropolitan Expressway, Katsushika-Edogawa Rute, special issu of M+M Design Office, Japan Interior Design , 1989-no 311, p.64-65 Interior Publishing Co.Ltd.
- Yoshimoto N., the coauthor, Ogawa T., Miyazaki K., the editors, Katachi no Kagaku, 1987, Asakurashoten.