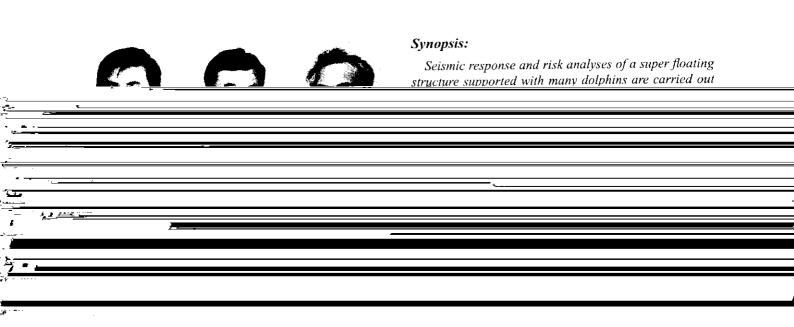
KAWASAKI STEEL TECHNICAL REPORT



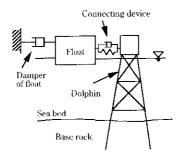


Fig. ? Delphin.structurel model4)

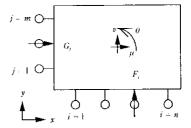


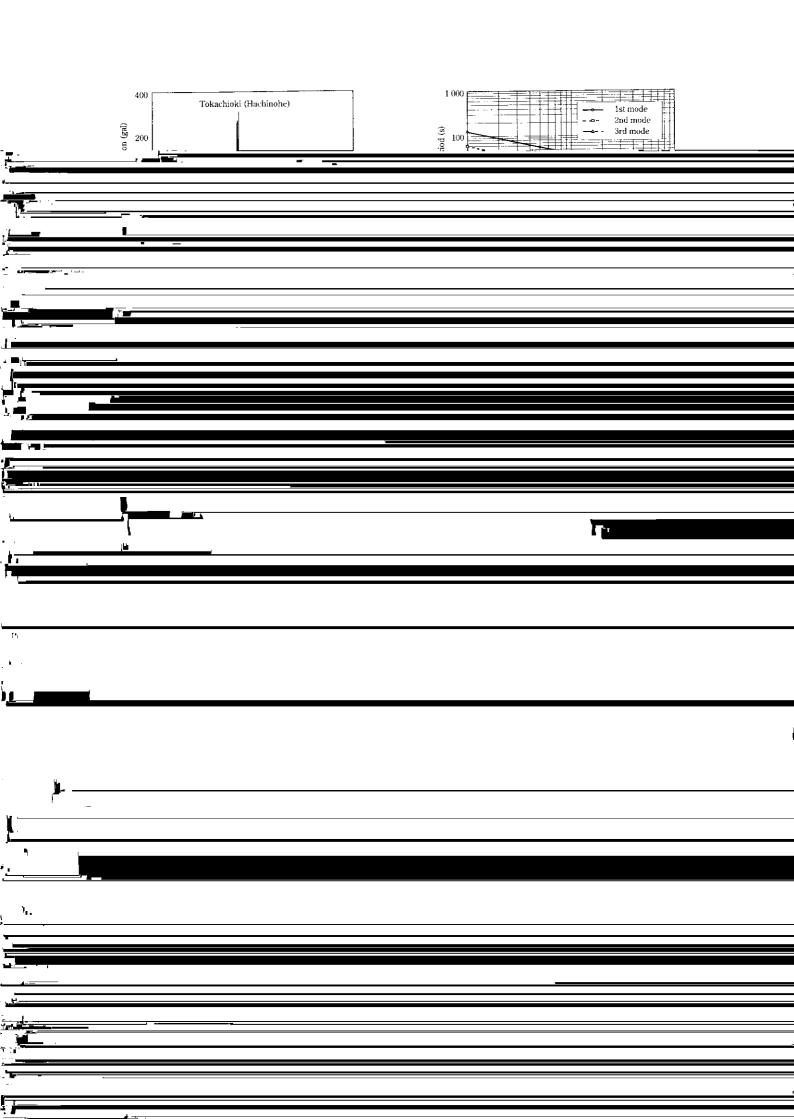
Fig. 3 Configuration of the floating structure

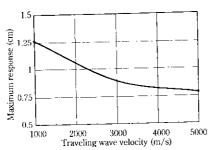
in which M, I, C and C_{θ} are the mass, inertia moment, and damping coefficients (for translation mode and rotation mode) of the VLFS. Using the response vector $Q = \{u, v, \vartheta\}$ and its generalized motion vector q and characteristic matrix $[\phi]$, we may obtain the following equation of motion in the generalized coordinates:

tiates the rotational motion, the residual dolphins might be damaged in succession, so that the progressive failure of the dolphins occurs.

Let us define the event of the system failure that the rotational response of the VLFS exceeds the critical value θ_{cr} given in the following form:

		value $\theta_{\rm cr}$ given in the following form:	
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	in which	where the response $\theta_{D(d1, d2,, dm)}$ of the VLFS is to be controlled by the global stiffness which is generated	
	$(0.0) = 1.61(3.0) + 9 = 1.0 + 1 = \sqrt{1} = 1.0(10)$	from any combination D(d1 d2 dm) of damaged and	
			
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Earthquake response for several traveling Fig. 8 wave velocities4)

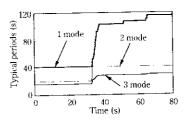


Fig. 10 Typical periods under progressive failure process

5 Conclusion

