

# Pump Noise and Vibrations

## **Pump Noise and Vibrations**

G. Caignaert, Editor

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Centre Technique des Industries Méchaniques (CETIM), B.P. 67, 60304 Senlis, France

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This volume is the proceedings of the first international symposium on pump noise and vibrations sponsored by the Société Hydrotechnique de France. The symposium was held at the Centre de Recherche d'Electricité de France (EDF) on 1993 July 7-9. The key lecture on "Interaction of pumps and piping systems with regard to pressure fluctuations" was followed by 10 topics all related to pressure fluctuations in pumping systems and the resulting production of noise and vibration. The ten topics give an idea of the scope of the papers presented: Experimental analysis of unsteady flow in pumps, numerical analysis of unsteady flow in pumps, Modelling and prediction of fluid-borne noise and similarity laws, measurement of fluid borne noise in pumps, structure-borne and air-borne noise measurement, Dynamic interaction between pump and piping system, Computer codes for noise and vibration analysis, Experimental methods for noise and vibration analysis of pumps and piping systems, Case histories, and Pump noise and vibration control.

Of the 58 papers in the proceedings, 15 are in French and 43 are in English.