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The aim of this International Symposium on Dynamics of Vibro-Impact Systems is to provide a forum for the discussion of recent developments in the theory and industrial applications of vibro-impact ocean systems. A special effort has been made to invite active researchers from engineering, science, and applied mathematics communities. This symposium has indeed updated engineers with recent analytical developments of vibro-impact dynamics and at the same time allowed engineers and industrial practitioners to alert mathematicians with their unresolved issues. The symposium was held in Troy, Michigan, during the period October 1-3, 2008. It included 28 presentations grouped as follows: The first group comprises of nine papers dealing with the interaction of ocean systems with slamming waves and floating ice. It also covers related topics such as sloshing-slamming dynamics, and non-smooth dynamics associated with offshore structures. Moreover, it includes control issues pertaining to marine surface vessels. The second group consists of fifteen papers treats the interaction of impact systems with friction and their control, Hertzian contact dynamics, parameter variation in vibro-impact oscillators, random excitation of vibro-impact systems, vibro-impact dampers, oscillators with a bouncing ball, limiting phase trajectory corresponding to energy exchange between the oscillator and external source, frequency-energy distribution in oscillators with impacts, and discontinuity mapping. The third group is covered in four papers and addresses some industrial applications such as hand-held percussion machines, rub-impact dynamics of rotating machinery, impact fatigue in joint structures.

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