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Mathematically modeling the main dimensions of self-elevating

drilling units(PDF)

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Title: Mathematically modeling the main dimensions of self-elevating drilling

units

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关键词: self-elevating drilling unit; main dimensions; single variable; multi-variable

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摘要: The present status of self-elevating drilling units was analysed. Based on statistics of

the main dimensions of self-elevating drilling units, a mathematical model was established using stepwise return procedures and a back-propagation neural network. Analysis of examples of calculations showed that the mathematical model is applicable and reliable. The model is useful for mastering the essential variations of the main dimensions of self-elevating drilling units and can be used for technical and economic analysis as well as in conceptual designs of drilling units.

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参考文献/REFERENCES

- [1] FANG Yinxia, BAO Gengsheng, JIN Xianglong. Prospects for the exploitation and utilization of deep-sea resources in the 21st century[J]. Marine Science Bulletin, 2000, 19(5): 73-78(in Chinese).
- [2] LI Fen, ZOU Zaojian. Research condition and developmental tendency of the floating structures[J]. Journal of Wuhan University of Technology, 2003, 27(5): 682-685(in Chinese).
- [3] GONG Min, TAN Jiahua. The analysis of jacket platform load[J]. China offshore Platform, 2005, 20(4): 20-23.
- [4] JI Chunqun, SUN Chunchang. Analysis of stability against overturning and foundation bear force for jack-up rig[J]. Journal of Shanghai Jiaotong University, 1996, 30(3): 79-85(in Chinese).
- [5] ZHAN Yiting, JI Zhuoshang, LIU Yindong. Research and development of a digital design system for hull structures[J]. Journal of Marine Science and Application, 2007, 6(2): 37-43.
- [6] SUN Song. Study on ship form evaluate alternatives and intelligent decision-making methods[D]. Dalian: Dalian University of Technology, 2002: 21-34(in Chinese).
- [7] CONG Shuang. Theory and application of the neural network tools in MATLAB[M]. Hefei: University of Science and Technology of China Press, 2003: 150-205(in Chinese).
- [8] LOU Shuntian, SHI Yang. System analysis and design based on MATLAB?the neural network[M]. Xi^{*} an: Xidian University Press, 2000: 20-180(in Chinese).
- [9] SANG Song, LIN Yan. Study of math modeling on ship's principal particulars based on neural network[J]. Computer Engineering, 2002, 28(9): 238-240(in Chinese).

备注/Memo: -

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