

عنوان مقاله:

Modelling of directional oil well string using Bond graph approach

محل انتشار:

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خلاصه مقاله:

Oil well drilling has always been one of the challenging subjects in engineering, and during the past decade in order to enhance the efficiency, this process has been developed in many aspects which cause more difficult problems in scientific fields. Besides, in many countries the oil reservoirs are located in ultra-depth and as a consequence this process is going to be more severe. Especially to attain more hydrocarbon products such as oil and gas, the deviated drilling technology is used. By using this type of drilling this subject needs more research and survey on its treatment. In this paper a directional oil well drill string is concerned and the related bond graph model is developed. It has a Bottom Hole Assembly (BHA) that will be mentioned in the paper. But this is just a sample case and it can be various .in its BHA, depth and slope

کلمات کلیدی:

Drilling jar, Float sub, Stabilizer, Bond Graph, Dynamic modeling

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