第一题的reference

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【0.5】

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| [Hydraulic Fracturing With Heated Fluids Brings Success in High-Pour-Point Waxy-Oil Reservoir in India](https://kns.cnki.net/KNS8/Detail/RedirectScholar?flag=TitleLink&tablename=SFJG_01&filename=SFJGACB341461D0A0FB6CD1E37D4E957439A" \t "https://kns.cnki.net/kns8/defaultresult/_blank) | Shaoul, Josef R.;Ross, Michael J.;Spitzer, Winston J.;Wheaton, Stuart R.;Mayland, Paul J. | SPE Production & Operations | 2009-02-01 | 外文期刊 |

【1】

Evaluation of the logit/probit transform method to modeling historical resource production and forecasting compared to conventional Hubbert modeling

作者:[Nanzad, B](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=19998301" \o "查找此作者的更多记录) (Nanzad, Bolorchimeg)[ [1](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000413882900004-1')) ] ; [Anderson, KB](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=1933419" \o "查找此作者的更多记录) (Anderson, Ken B.)[ [1](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000413882900004-1')) ] ; [Conder, JA](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=1134599" \o "查找此作者的更多记录) (Conder, James A.)[ [1](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000413882900004-1')) ]

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INTERNATIONAL JOURNAL OF COAL GEOLOGY

卷: 182

页: 42-51

DOI: 10.1016/j.coal.2017.08.016

出版年: SEP 1 2017

文献类型:Article

【2】

The Hubbert diffusion process: Estimation via simulated annealing and variable neighborhood search proceduresapplication to forecasting peak oil production

作者:[Sant'Ana, ID](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=16415747" \o "查找此作者的更多记录) (da Luz Sant'Ana, Istoni)[ [1](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000434636000009-1')) ] ; [Roman-Roman, P](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=1488326" \o "查找此作者的更多记录) (Roman-Roman, Patricia)[ [2](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000434636000009-2')) ] ; [Torres-Ruiz, F](http://apps.webofknowledge.com/OutboundService.do?SID=6BN5qjuAYIWJlDPMpWD&mode=rrcAuthorRecordService&action=go&product=WOS&lang=zh_CN&daisIds=1232155" \o "查找此作者的更多记录) (Torres-Ruiz, Francisco)[ [2](http://apps.webofknowledge.com/javascript:sup_focus('addressWOS:000434636000009-2')) ]

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APPLIED STOCHASTIC MODELS IN BUSINESS AND INDUSTRY

卷: 34

期: 3

页: 376-394

特刊: SI

DOI: 10.1002/asmb.2306

出版年: MAY-JUN 2018

文献类型:Article

摘要

Accurately charting the progress of oil production is a problem of great current interest. Oil production is widely known to be cyclical: in any given system, after it reaches its peak, a decline will begin. With this in mind, Marion King Hubbert developed his peak theory in 1956 based on the bell-shaped curve that bears his name. In the present work, we consider a stochastic model based on the theory of diffusion processes and associated with the Hubbert curve. The problem of the maximum likelihood estimation of the parameters for this process is also considered. Since a complex system of equations appears, with a solution that cannot be guaranteed by classical numerical procedures, we suggest the use of metaheuristic optimization algorithms such as simulated annealing and variable neighborhood search. Some strategies are suggested for bounding the space of solutions, and a description is provided for the application of the algorithms selected. In the case of the variable neighborhood search algorithm, a hybrid method is proposed in which it is combined with simulated annealing. In order to validate the theory developed here, we also carry out some studies based on simulated data and consider 2 real crude oil production scenarios from Norway and Kazakhstan.

关键词

作者关键词:[diffusion processes](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=6BN5qjuAYIWJlDPMpWD&field=TS&value=diffusion+processes&uncondQuotes=true" \o "查找此作者关键词的更多记录); [Hubbert curve](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=6BN5qjuAYIWJlDPMpWD&field=TS&value=Hubbert+curve&uncondQuotes=true" \o "查找此作者关键词的更多记录); [oil production model](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=6BN5qjuAYIWJlDPMpWD&field=TS&value=oil+production+model&uncondQuotes=true" \o "查找此作者关键词的更多记录); [simulated annealing](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=6BN5qjuAYIWJlDPMpWD&field=TS&value=simulated+annealing&uncondQuotes=true" \o "查找此作者关键词的更多记录); [variable neighborhood search](http://apps.webofknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&excludeEventConfig=ExcludeIfFromFullRecPage&SID=6BN5qjuAYIWJlDPMpWD&field=TS&value=variable+neighborhood+search&uncondQuotes=true" \o "查找此作者关键词的更多记录)