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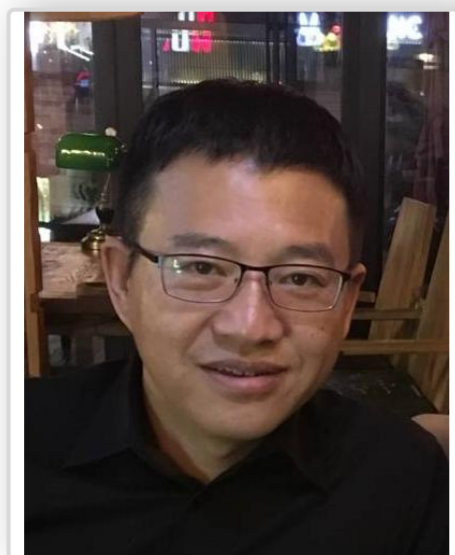
洪德成 (教授)

Decheng Hong

基本信息 *MORE +*

学位：博士

性别：男

毕业院校：Jilin University

学历：博士研究生毕业

在职信息：在职

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洪德成，男，1979年，理学博士。教授，博士研究生导师。

教育和工作背景

- 2019.09—至今：　教授，　吉林大学物理学院

- 2015.04—2016.04：杜克大学访问学者， Department of Electrical and Computer Engineering, Duke University, USA. 指导教师：柳清伙博士
- 2013.09—2019.08：副教授，吉林大学物理学院
- 2009.07—2013.08：讲 师，吉林大学物理学院
- 2005.11—2009.06：助 教，吉林大学物理学院

- 2004.09—2009.07：博士研究生，吉林大学物理学院理论物理中心. 指导教师：杨善德 教授
- 2002.09 —2004.07：硕士研究生，吉林大学物理学院理论物理中心. 指导教师：杨善德 教授
- 1998.09 —2002.07：本科生，东北师范大学物理学院

学术方向：

1). 非均匀介质中电磁场的求解，

2). 电磁波测井理论研究，包括电磁感应测井、传播电阻率测井、介电测井和井间电磁等。

目前研究课题为①介电测井正、反演理论研究②随钻电磁波地层边界远探测。

学术兼职：

IEEE Transactions on Geoscience and Remote Sensing （TGRS）副主编 Topical Associate Editor

学会会员：

1. Institute of Electrical and Electronics Engineers (IEEE) :Senior Member（高级会员）
2. IEEE Antennas and Propagation Society Membership
3. IEEE Geoscience and Remote Sensing Society Membership
4. IEEE Yong Professionals
5. 中国海洋学会海洋物理分会会员

学术活动：

1. 第一届TACE计算电磁学青年学者论坛，2019.10
2. 2019 PIERS 厦门，主题分会

科研项目情况：

1. 国家自然基金面上项目，   1项，在研.
2. 吉林省自然基金面上项目，   1项，在研.
3. 中国石油科技创新基金项目，   1项，在研.
4. 国家自然基金青年基金项目，   1项，结题.
5. 中国石油长城钻探公司横向课题，2项，结题.

学术论文：

1. Yan Bai, Qiwei Zhan, Hongnian Wang, Tao Chen, Qiuli He, **Decheng Hong**[†], "Calculation of tilted coil voltage in cylindrically multilayered medium for well-logging applications," *IEEE Access*, vol.8, no.1,pp: 30081-30091, 2020

2. Na Li, **Decheng Hong**[†], Wei Han, Qing Huo Liu, "An analytic algorithm for electromagnetic field in planar-stratified biaxial anisotropic formation," *IEEE Transactions on Geoscience and Remote Sensing*, vol.58, no.3, 1644-1653, 2020.

3. **Decheng Hong,** Hu Li†, Wei-Feng Huang, Hongmei Liu, "Investigation of borehole effects on azimuthal resistivity measurements using novel pseudo-analytic formulas," *Geophysical Prospecting*, vol.68, pp:709-720, 2020.

4. **Decheng Hong†**, Shouwen Yang, Ye Zhang, Wei-Feng Huang, and Qing Huo Liu, "Pseudoanalytical formulations for modeling the effect of an insulating layer in electromagnetic well logging," *IEEE Transactions on Geoscience and Remote Sensing* ,vol.56, no.12, pp.7022-7029,2018

5. Yi Ren, Shi-Wei Zhao, Yongping Chen, **Decheng Hong**, and Qing Huo Liu, "Simulation of low-frequency scattering from penetrable objects in layered medium by current and charge integral equations," *IEEE Transactions on Geoscience and Remote Sensing*, 2018, DOI:10.1109/TGRS.2018.2840145 (JCR 1区，IF=4.942)

6. Hongmei Liu, **Decheng Hong†**, Na Li, Wei Han, and Qing Huo Liu, "Solving Electromagnetic fields by general reflection\transmission method for coaxial-coil antenna in cylindrically multilayered medium," *IEEE Geoscience and Remote Sensing Letters*, vol.15, no.6, pp.912-916,2018 (JCR 2区，IF=2.761)

7. **Decheng Hong†**, Yang Yu, Yi Ren, Wei-Feng Huang, Qing Huo Liu, "Compact Pseudoanalytic Formulations of Coaxial coil Antennas in a Cylindrically Multilayered Medium for Well-logging Applications", *IET Microwaves, Antennas and Propagation*, vol.12, No.2,pp.217-223. 2018 (JCR 4区，IF 1.187)

8. **Decheng. Hong†**, W-F Huang., H Chen, Qing Huo Liu: "Novel and Stable Formulations for the Response of Horizontal-coil Eccentric Antennas in a Cylindrically Multilayered Medium", *IEEE Trans. Antennas Propag,* vol.65, no.4, pp.1967-1977. 2017 (JCR 1区，IF=2.957)

9. Shouwen Yang, **Decheng Hong†**, W-F Huang, Qing Huo Liu: "A Stable Analytic Model for Tilted-Coil Antennas in a Concentrically Cylindrical Multilayered Anisotropic Medium", *IEEE Geoscience and Remote Sensing Letters*，vol.14, no.4, pp: 480-483,2017 (JCR 2区，IF=2.761)

10. **Decheng Hong†**, Wei-Feng Huang, Qing Huo Liu, Radiation of Arbitrary Magnetic Dipoles in a Cylindrically Layered Anisotropic Medium for Well-Logging Applications *IEEE Transactions on Geoscience and Remote Sensing,*vol.54, no.11, pp.6362-6370, 2016 (JCR 1区，IF=4.942)

11. Mingyi Li, Xiangan Yue, **Decheng Hong†**, Wei Han, *Simulation and analysis of the symmetrical measurements of a triaxial induction tool*, *IEEE Geoscience and Remote Sensing Letters*, vol.12, no.1, pp.122-124, 2015 (JCR 2区，IF=2.761)

12. **Decheng Hong†**,Shande Yang, Shouwen Yang, A separately determing anisotropic formation parameter method for triaxial induction data, *IEEE Geoscience and Remote Sensing Letters*, vol.11, no.5, pp.1015-1018, 2014 (JCR 2区，IF=2.761)

13. **Decheng Hong†**,Jiaqi Xiao, Guoyan Zhang, Shande Yang, Characteristics of the sum of cross-components of triaxial induction logging tool in layered anisotropic formation, *IEEE Transactions on Geoscience and Remote Sensing*, vol.52, no.6, pp.3107-3115, 2014 (JCR 1区，IF=4.942)

洪德成†，肖加奇，张国艳，赵彦伟，梁小兵, 大斜度井中利用交叉分量快速反演井斜角, 地球物理学报，vol. 56, no.7，pp. 2494-2501，2013

Decheng Hong, Jiaqi Xiao, Guoyan Zhang, Yanwei Zhao, Xiaobing Liang, *Fast inverse the relative dip using cross-component in highly deviated well, Chinese Journal of Geophysics*(in Chinese),vol.56, No.7, pp.2494-2501, 2013

14. 肖加奇，张国艳，**洪德成†**，杨善德，层状各向异性介质中三维感应测井响应快速计算及资料处理,地球物理学报vol.56, no.2, pp.696-706，2013

Jiaqi Xiao, Guoyan Zhang, **Decheng Hong†**, Shande Yang, *Fast forward modeling and data processing of 3D induction logging tool in layered anisotropic formation*, *Chinese Journal of Geophysics*(in Chinese),vol.56, No.2, pp.696-706, 2013

15. 张国艳，肖加奇，**洪德成**, 层状各向异性地层三维感应测井响应快速反演. 测井技术， vol.37, no.5, pp.487-491

Guoyan Zhang, Jiaqi Xiao, **Decheng Hong**, *A fast inversion method of 3D induction logging response in layered anisotropic formation*. *Well Logging Technology* (in Chinese), Vol.37, No.5, pp.487-491.2013

16. 张国艳 ，肖加奇，肖占山，**洪德成**，王林， 三维感应测井仪器在三维井眼环境中的正演模拟，中国石油大学学报（自然科学版）,vol. 37, no.3, pp. 1-5

Guoyan Zhang, Jiaqi Xiao, Zhanshan Xiao, **Decheng Hong**, Lin Wang, *Forward modeling of 3D induction logging tool in 3D borehole environment*, *Journal of China University of Petroleum* (in Chinese), Vol.37, No.3, pp.63-67,2013

17. 洪德成，杨善德†， 大介电常数地层中多分量感应测井响应研究，物理学报，vol.60, no.10, 109101

Decheng Hong, Shande Yang, *Muti-component induction logging response in large dielectric formatio*n. *Acta Phys. Sin.* (in Chinese), vol.60, No.10, 109101, 2011

18. 康俊佐，**洪德成**，杨善德，苏鸿雁，高频等参数感应测井的二维全参数反演方法研究，测井技术Vol.35， No.2， pp. 122-129，2011

Junzuo Kang, **Decheng Hong**, Shande Yang, Hongyan Su, *Detective characteristics and two-dimension full-parameter inverse method of high frequency isopara metric induction logging*, *Well Logging Technology* (in Chinese), Vol.35, No.2, pp. 122-129,2011

19. 洪德成，杨善德，张量感应测井资料处理中若干问题的研究，地球物理学报， vol.52, no.4, pp., 2009

Decheng Hong, Shande Yang, *A study on some problem of tensor induction well logging data processin*g, *Chinese Journal of Geophysics*(in Chinese),vol.52, No.4, pp., 2009

20. 洪德成，杨善德，张量感应测井视值解释方法的改进，地球物理学进展 ， vol.23, no.1, pp.178-185, 2008

Decheng Hong, Shande Yang, *The improvement of the apparent value interpretation method for tensor induction well logging*. *Progress in Geophysics* (in C hinese), vol.23, No.1, pp.178-185, 2008

会议论文

1. Na Li, **Decheng Hong†,** Hongmei Liu, Wei Han, Tao Chen, Jiangtao He, "An analytic algorithm to solve electromagnetic field in planar-stratified biaxial anisotropic medium," 2 019 IEEE International Conference on Computational Electromagnetics, March 20-22, 2019. Tongji University, Shanghai, China

2. **Decheng Hong†,** Siwei Wan, Hongmei Liu, Wei Han, Tao Chen, Jiangtao He, "Calculation of tilted coil voltage in cylindrically multilayered medium," 2019 IEEE International Conference on Computational Electromagnetics, March 20-22, 2019. Tongji University, Shanghai, China

3. **Decheng Hong†,** Na Li, Tao Chen, Qiuli He, Chao Shi, "An ultra-deep boundary detection method based on electric field analysis," The 42nd PIERS Photonics & Electromagnet ics Research Symposium, December 17-20, 2019, Xiamen University, Xiamen, China

教育经历

[1] 2015.4-2016.4
Duke University | Department of Electrical and Computer Engineering | 访问学者 | 杜克大学，美国常青藤学校
[2] 2002.9-2009.7
吉林大学 | 理论物理 | 硕士研究生、博士研究生 | 博士学位
[3] 1998.9-2002.7
东北师范大学 | 物理学 | 本科 | 学士学位

工作经历

[1] 2019.9-至今
物理学院 | 吉林大学物理学院
[2] 2013.9-2019.8
物理学院 | 吉林大学
[3] 2009.9-2013.8
物理学院 | 吉林大学
[4] 2005.11-2009.8
物理学院 | 吉林大学

研究方向

[1]地球物理勘探；电磁波测井

[2]非均匀介质中电磁场计算与模拟

社会兼职

[1]2020.4-至今

Institute of Electrical and Electronics Engineers (IEEE) 高级会员

[2]2016.3-至今

Institute of Electrical and Electronics Engineers (IEEE) 会员

[3]2020.1-至今

IEEE Geoscience and Remote Sensing Society Membership 会员

[4]2020.1-至今

IEEE Antennas and Propagation Society Membership 会员

团队成员

团队名称：计算电磁学

团队介绍：

在读博士研究生2人；硕士研究生1人