

## 目次

## 甲醇动力专栏

- 专栏主编观点 ..... (1)
- 甲醇燃料在船舶内燃机动力中的应用 ..... 姚安仁,贾宝富,马宝东,王文超,牛志坚,姚春德(2)
- 船用高速柴油-甲醇双燃料发动机开发 ..... 辛强之,牛志坚,刘毅,王延瑞,贾宝富(9)
- 重型甲醇发动机增压器匹配仿真与试验 ..... 卢兆强,苏茂辉,卢瑞军,蒋海勇,陈海兰(13)
- 基于甲醇重整制氢的动力系统技术 ..... 余皎,史笑,沈建跃(19)

## 性能与排放

- 高背压环境船用柴油机电辅助增压功率恢复 ..... 王子仪,马泽泰,杨名洋,邓康耀(26)
- 镁基法船用烟气脱硫技术研究及应用 ..... 施丽丽,肖飞,张圆飞,马跃,尚铭凯(34)
- 船用脱硫系统废水超滤膜性能对比试验 ..... 张西兆,黄昊,李晓波,龚大伟,张晓康,杜明赛,雍征文(38)

## 结构与可靠性

- 机油泵油腔结构优化对柴油机进机压力的影响及试验 .....  
..... 胡卫中,安禄政,刘彦军,赵锁成,王中民,耿小昌,吕锋(43)
- 非均匀发火柴油机启动空气分配器设计改进 ..... 郭俊宝,郑智锋,张寅虎(47)
- 某型钢活塞销孔与活塞销咬合机理分析和结构优化 ..... 黄祖东,赵喆,谭清雅,代凌峰,胡定永(51)

## 系统与附件

- “华龙一号”首台应急柴油发电机组安装 .....  
..... 熊记伟,张玉兴,卢少林,倪小明,张飞,杨发慧,李金石,王耀辉(55)

## 信息动态

- MAN ES 在开发新燃料的过程中将注意力转向小缸径发动机 Win GD 助推燃料研究势头强劲 英国海事  
事故调查局报道的3例渡轮发动机故障 ..... (后插1-4)

## 公告

- 《柴油机》编辑部公告 ..... (封三)

## 广告目次

- 封二 重庆清平机械有限责任公司
- 封四 《柴油机》杂志公益广告

**Contents****Special Column**

- Application of Methanol Fuel in Marine Internal Combustion Engine Power System .....  
 ..... YAO Anren, JIA Baofu, MA Baodong, WANG Wenchao, NIU Zhijian, YAO Chunde ( 2 )
- Development of Marine High-Speed Diesel-Methanol Dual Fuel Engine .....  
 ..... XIN Qiangzhi, NIU Zhijian, LIU Yi, WANG Yanrui, JIA Baofu ( 9 )
- Simulation and Experiment of Heavy Methanol Engine Matching with Turbocharger.....  
 ..... LU Zhaoqiang, SU Maohui, LU Ruijun, JIANG Haiyong, CHEN Hailan ( 13 )
- Technologies of Power System Based on Methanol Reforming Hydrogen Generation .....  
 ..... YU Jiao, SHI Xiao, SHEN Jianyue ( 19 )

**Performance and Emission**

- Power Recovery of Marine Diesel Engine Under High Backpressure Based on Electrically-Assisted Turbocharger ...  
 ..... WANG Ziyi, MA Zetai, YANG Mingyang, DENG Kangyao ( 26 )
- Research and Application of Magnesium Based Desulfurization Technology for Marine Exhaust Gas .....  
 ..... SHI Lili, XIAO Fei, ZHANG Yuanfei, MA Yue, SHANG Mingkai ( 34 )
- Comparative Experiment on Performance of Ultrafiltration Membrane for Wastewater from Marine  
 Desulfurization System..... ZHANG Xizhao,  
 HUANG Hao, LI Xiaobo , GONG Dawei, ZHANG Xiaokang, DU Mingsai, YONG Zhengwen ( 38 )

**Construction and Reliability**

- Influence of Lubricant Pump Oil Chamber Optimization on Diesel Engine Inlet Pressure and Test.... HU Weizhong,  
 AN Luzheng, LIU Yanjun, ZHAO Suocheng, WANG Zhongmin, GENG Xiaochang, LYU Feng ( 43 )
- Design Improvement of Air Starting Distributor for Non-Uniform Ignition Diesel Engine.....  
 ..... GUO Junbao, ZHENG Zhifeng, ZHANG Yinhu ( 47 )
- Mechanism Analysis and Structural Optimization of Engagement Between Steel Piston Pin Hole and Piston Pin .....  
 ..... HUANG Zudong, ZHAO Zhe, TAN Qingya, DAI Lingfeng, HU Dingyong ( 51 )

**System and Accessory**

- Installation of the First "HPR 1000" Emergency Diesel Generator..... XIONG Jiwei,  
 ZHANG Yuxing, LU Shaolin, NI Xiaoming, ZHANG Fei, YANG Fahui, LI Jinshi, WANG Yaohui ( 55 )