

Year 2008

- ✦ [Future Passenger Car R2S Charging Systems - using VTG and Low Pressure EGR?](#)
将来的乘用车 R2S 增压系统——采用 VTG 和低压 EGR?
Dr. Frank Schmitt, Sebastian Howe, Philipp Wilkens, BorgWarner
- ✦ [Emissions modelling in GT-SUITE employing detailed chemistry](#)
基于详细化学机理的 GT-SUITE 排放模拟
M. Kraft, S. Mosbach, J. Etheridge, L. Cao, H. Su, A. Al Dawood, and A. Bhave, University of Cambridge
- ✦ [Chain Drive Modeling using GT-SUITE](#)
基于GT-SUITE的链传动仿真
Niranjan Ghaisas, Cummins Inc.
- ✦ [Parameter Tuning Real Time Engine Models](#)
实时发动机模型参数调整
Matt Butts, Cummins Inc.
- ✦ [Methods For Improving Turbocharger Simulation Accuracy in GT-Power](#)
GT-Power 中提高增压器仿真精度的方法
Owen Ryder and Ganesan Subramanian, Cummins Turbo Technologies
- ✦ [A GT-POWER Based Predictive Radial Turbine Model](#)
基于 GT-Power 的预估径向涡轮机模型
Jan Macek, Oldrich Vitek, Jan Buric, Czech Technical University in Prague
- ✦ [Integrated Simulation of a Truck Diesel Engine with a Hydraulic Engine Braking System](#)
卡车柴油机的液压发动机制动系统集成仿真
N. Brinkert, K. Kanning, Daimler Trucks
- ✦ [Thermal Management Concept Investigations of the new Heavy Duty Engine Platform using GT-COOL/GT-POWER](#)
基于GT-COOL/GT-Power的新型重型发动机平台热管理概念研究
Matthias Schmid, Daimler Trucks
- ✦ [The Simulation Cycle: Integration of GT-POWER, GT-VTrain, and VTDesign for the Optimization of NASCAR Valve Events](#)
仿真循环: 集成GT-Power,GT-VTrain和VTDesign进行NASCAR阀正时优化
Scott Flanagan, Jerry Hailey, Paul Bolton, Earnhardt Childress Racing Engines
- ✦ [Extended Range Turbocharger Maps: Measurement and Benefit for Simulation](#)
扩展增压器 Map 的范围: 测量和对仿真的益处
Johannes Scharf, RWTH Aachen University
Christof Schernus, Stefan Wedowski, Richard Aymanns, FEV
Norbert Schom, Vanco Smiljanovski, Ford
- ✦ [UNIAIR Variable Valve Actuation System Modelling and Integration to the Engine in the GT-SUITE environment](#)
UNIAIR可变气门驱动系统建模并在GT-SUITE环境中与发动机的集成
Paolo Ferreri, Caterina Venezia, FPT - Research & Technology
- ✦ [Optimization of a 3-Cylinder CNG Engine within a Hybrid Powertrain](#)
在混合动力总成中 3 缸 CNG 发动机的优化
Daniel Boland, FKFS
- ✦ [A Model Based Approach to Exhaust Heat Recovery Using Thermoelectrics](#)
采用热电部件进行排气余热回收的模型研究

- Quazi Hussain, David Brigham, and Clay Maranville, Ford
- [Analysis of Crankshaft Speed Fluctuations and Combustion Performance](#)
曲轴速度波动和燃烧性能的分析
Ramakrishna Tatavarthi, Julian Verdejo, GM Powertrain
 - [Simulation of DPF regeneration strategies](#)
DPF再生策略的仿真
A. Schilling, Dr. R. Röthlisberger, LIEBHERR
 - [Investigation of Potential Fuel Economy Improvements of a SOHC Engine via Independent Inlet and Exhaust Cam Timing Control](#)
通过单独的进、排气凸轮正时控制, 研究SOHC发动机的燃油经济性提高潜力
Mike Bassett, Steve Simmonds, David Gurney, Rob Lynn, Hugh Blaxill, MAHLE Powertrain, UK
Falk Schneider, MAHLE Valvetrain, Germany
 - [Using GT-POWER To Determine Minimum DoE Size For Optimal SI DIVCP Engine Calibration](#)
采用GT-POWER, 通过优化DIVCP SI发动机校准, 确定最少的DoE个数
Pete Maloney, The Mathworks, Inc.
 - [Performance Analysis of a Decompression Brake System for a Diesel Engine](#)
柴油机减压制动系统性能分析
Ivan Miguel Trindade, Vinicius J. M. Peixoto, MWM International Motores
 - [1D-3D coupling between GT-Power and OpenFOAM for cylinder and duct system domains](#)
气缸和管道系统GT-Power和OpenFOAM的 1D-3D耦合分析
G. Montenegro, A. Onorati, M. Zanardi, Politecnico di Milano
M. Awasthi, J. Silvestri, Gamma Technologies, Inc.
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船用柴油机燃油喷射和燃烧集成仿真
F. Millo, E. Pautasso, S. Zancanaro, Politecnico di Torino
D. Delneri, Wärtsilä S.p.A.

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- [V8 Engine Breathing Revisited: A GT-POWER Analysis of AFR Control and Performance Issues](#)
V8 发动机进气再研究: 空燃比控制和性能的GT-POWER分析
Christof Schernus, FEV Motorentchnik GmbH
- [Super Cooling of the Combustion Air by Means of an Additional Air Turbo Adopted for a 4-Stroke SI-Engine](#)
四冲程SI发动机附加空气涡轮冷却进气法
Lennarth Zander, Volvo Corporation
- [Design of Automotive Cooling Systems with GT-COOL and COOL-3D](#)
基于GT-COOL和COOL-3D的汽车冷却系统设计
Dr. Gerald Seider, BMW AG
- [Surge Modeling in GT-POWER: A Status Report on the Method to Simulate Compressors Close To and In Surge](#)
GT-POWER中的喘振模拟: 仿真压气机接近和进入喘振的仿真方法研究的状态报告
Michael Vallinder, Fredrik Lindström, and Raymond Reinmann, GM Powertrain Sweden
- [Sensitivity Study of a Turbo-Charged SI-Engine at Rated Power](#)
额定功率时涡轮增压SI发动机敏感性研究
Jens Neumann and Andrei Stanciu, BMW AG
Bodo Banischewski, Bertrandt

- **[Aftertreatment Modeling with Computationally Efficient Q-S Solver](#)**
利用高效准稳态求解器的后处理模拟
Jean-Nicolas Cassez, PSA Peugeot-Citroën
Syed Wahiduzzaman, GTI
- **[Use of Cycle Simulation for Matching a R2S Turbo System to a HD Diesel Engine](#)**
基于循环仿真的R2S增压系统与HD柴油机匹配
Michael Gisiger, Liebherr
- **[VVT Optimization With GT-POWER and Genetic Algorithms](#)**
基于GT-POWER和基因算法的VVT优化
Dipl.-Ing. R. Kuberczyk and Prof. Dr.-Ing. M. Bargende, FKFS
- **[HCCI Modeling, Calibration and Analysis by Integrating GT-Power and Matlab-Simulink Capabilities](#)**
HCCI的GT-POWER和Matlab-Simulink集成仿真、标定与分析
Dipl.-Ing. Axel Kiefer, Dr.-Ing. AndréKulzer, and Santosh Rao M.Sc., Robert Bosch
- **[Development and Validation of Cummins High Horse Power Engine Overhead Components Using GT-Vtrain](#)**
基于GT-Vtrain的康明斯大马力发动机顶置部件开发和校核
Junhua Zheng, Cummins Engine Company
- **[NEDC Simulation with GT-DRIVE](#)**
基于GT-DRIVE的NEDC仿真
Dipl.-Ing. R. Kuberczyk and Prof. Dr.-Ing. M. Bargende, FKFS
- **[Diesel Hybrid for Passenger Cars: Analysis of Different Degrees of Hybridization](#)**
乘用车的柴油机混合：不同混合度的分析
F. Millo, G. Mafrici, and A. Federici, Politecnico di Torino
V. Paladini and M. Cisternino, General Motors Powertrain Europe
- **[Validation, Benchmarking, and Deployment of GT-CRANK at Cummins](#)**
GT-CRANK在康明斯的开发、校验和试验验证
Ilya Piraner, Cummins, Inc.
J. Rodriguez, M. Okarmus, S. Erogbogbo, and R. Keribar, GTI
- **[Numerical Analysis of the Hydraulic Circuit of a Commercial Common Rail Diesel Fuel Injection System](#)**
商用共轨柴油喷射系统液压回路数值分析
Philipp Beierer, Sandvik Mining and Construction OY
Kalevi Huhtala, and Matti Vilenius, Tampere University of Technology
- **[Modeling Lubrication System Oil Flow](#)**
润滑系统润滑油流动模拟
Roberto Pierotti and Walter Zottin, Mahle Metal Leve S.A.
Jon Harrison and Shawn Harnish, GTI
- **[Integrated Engine and Coolant Circuit Modeling with GT-SUITE](#)**
基于GT-SUITE的发动机和冷却系统集成仿真
Oliver Roessler, Vincenzo Bevilacqua, and Raymond Reinmann, GM Powertrain Germany GmbH
- **[Balance Shaft and Gear Train Modeling to Capture Gear Rattle Phenomenon](#)**
平衡轴和齿轮系模拟捕捉拍击现象
Justin Ferguson, International Truck and Engine Corporation
- **[Creation and Validation of a High-Accuracy, Real-Time-Capable Mean-Value GT-POWER Model](#)**
高精度、实时平均值GT-POWER模型的建立与校准
Tim Prochnau, International Truck and Engine Corporation

➤ **Real-time Evaluation of Detailed Chemistry Based on SRM-GT-POWER Coupling for HCCI Engine Application**

基于SRM-GT-POWER耦合的HCCI发动机详细化学实时模拟

S. Mosbach, A. Aldawood, M. Celnik, A. Bhave and M. Kraft, University of Cambridge

Year 2006

➤ **Exhaust system warm-up simulation**

排气系统暖机模拟

Stefan Heller, BMW Group

➤ **EGR System Analysis of a Turbocharged Diesel Engine**

涡轮增压柴油机EGR系统分析

Phil Keller and Volker Joergl, Borg Warner

Brad Tillock, Eng Sim

➤ **Development of an Exhaust Energy Recovery System Model**

排气能量回收模型开发

Matthew Butts, Cummins, Inc.

➤ **A Semi-Empirical Model for Fast Residual Gas Fraction Estimation in SI Engines**

SI发动机残余废气比例快速估计的半经验模型

Lurun Zhong, FEV Engine Technology, Inc.

Amer A. Amer, DaimlerChrysler Corporation

➤ **Hybrid Electric Vehicle Performance Modeling using GT-DRIVE**

基于GT-DRIVE的混合电动车性能模拟

Christof Schernus and Peter Janssen, FEV Motorentchnik GmbH, Aachen

Jörg Seibel, Institute for Combustion Engines, RWTH Aachen University

Lu Lianjun and Meng Tao, SAIC Motor Co. Ltd., Shanghai

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Greg Fialek, Rifat Keribar and Brian Luptowski, Gamma Technologies, Inc.

➤ **Development and Validation of a Mean Value Engine Model for Integrated Engine and Control System Simulation**

发动机和控制系统集成平均值模型的开发和校验

Yongsheng He, and Chan-Chiao Lin, General Motors Corporation

➤ **Development of a Double Variable Cam Phasing Strategy for Turbocharged GDI Engines**

涡轮增压GDI发动机双可变凸轮相位策略开发

Vincenzo Bevilacqua, Jany Krieg, Roland Maucher and Raymond Reinmann, GM Powertrain Europe, Ruesselsheim

➤ **Improved Scavenging by Individual Valve Cam Phasing**

通过单独阀凸轮相位提高扫气

Dr. Philipp Henschen, and Dr. Georg Tischmann, MAN B&W Diesel AG

➤ **Acoustic 1D Modeling and Simulation of Air Intake Systems**

进气系统声学 1D建模与仿真

Andreas Graefenstein, Mann+Hummel GmbH

➤ **Optimisation of Gomecsys variable compression ratio engine with GT-Power simulation tools**

基于GT-POWER仿真工具的Gomecsys可变压缩比发动机优化

George Corfield and Kean Harrison, Prodrive Automotive Technology, Warwickshire, England.

➤ **GT-POWER in Formula 1 – V10 Firing Order Selection**

基于GT-POWER的 Formula 1—V10 点火顺序选择

Pierre-Jean Tardy, Renault F1

- ✦ **DoE Analysis on the Effects of CR, Injection Timing, Nozzle Hole Size and Number on Performance and Emissions in a Diesel Marine Engine**
压缩比, 喷油正时, 喷孔尺寸和个数对船用柴油机性能和排放影响的DoE分析
F. Millo and E. Pautasso, Politecnico di Torino
D. Delneri and M. Troberg, Wärtsilä S.p.A, Italy

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- ✦ **Layout of a Power Split Hybrid Powertrain Using GT-DRIVE**
基于GT-DRIVE的功率分离混合动力总成设计
Bernd Kircher, Christof Schernus and Dirk van der Weem, FEV Motorentchnik
- ✦ **Use of TPA (Three-Pressure Analysis) to Obtain Burn Rates and Trapped Residuals**
采用TPA (三压分析) 获得燃烧率和废气残余
Dr. Karl-Alfred Goerg, BMW
Dr. Thomas Morel, Gamma Technologies
- ✦ **Use of Scavenging to improve Low-End Torque of a Turbocharged DISI-Engine**
利用扫气提高涡轮增压直喷SI发动机的低端扭矩
Martin Brandt and Martin Rauscher, Robert Bosch GmbH
- ✦ **The Potential of Electric Exhaust Gas Turbocharger for HD Diesel Engines**
HD柴油机电动废气涡轮增压潜力
Federico Millo and F. Mallamo, Politecnico di Torino
G. Mego, IVECO
- ✦ **Development of an Advanced Quasi-Dimensional SI Engine Combustion Model**
SI发动机高级准维燃烧模型的开发
Jens Neumeister, Mahle Powertrain Ltd.
- ✦ **Optimization of a Small Two-Stage Turbocharged Diesel Engine**
小型两级涡轮增压柴油机优化
Alain Lefebvre, Renault SA
- ✦ **Automated Gas Exchange Model Calibration Using Optimization Tools**
采用优化工具自动换气模型校准
Thomas Steidten, P. Adomeit, B. Kircher and S. Wedowski, FEV Motorenttechnik
- ✦ **Hydro-mechanical Simulation of a Cam-Rocker-Unit Injector System to Address Noise and Vibration Issues**
基于凸轮-摇臂-单体喷油器系统的液压-机械仿真的噪声与振动问题解决
Simon Langridge, IVECO Motorenforschung
Marcin Okarmus and P.S Reddy, Gamma Technologies
- ✦ **Integrated Simulation of the Engine and Control System of a Turbocharged DI Engine**
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Yongsheng He, C. Lin, A. Gangopadhyay, General Motors Corporation
- ✦ **Implementation of a Real Time GT-POWER Engine Model in HIL Setup**
实时GT-POWER在硬件在环装置中的实施
Manik Narula, Cummins Engine Company
- ✦ **DPF Modeling using GT-POWER**
基于GT-POWER的DPF模拟
Dean Tomazik, Christof Schernus, Andreas Wiartalla, FEV Motorenttechnik
- ✦ **Use of Design of Experiments and Distributed Computing for Optimization of Valve Events**
利用DoE和分布计算进行阀正时优化
Amer A. Amer, DaimlerChrysler Corporation

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- [Integrated Simulation and Tuning of Fuel Rail, and Intake Manifold of CNG Engine](#)
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- [Coupled CFD Simulation of a Variable Valve Actuation System](#)
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Giulio Giaffreda and Caterina Venezia, FIAT Research Center
- [Coupled Engine/Cooling System Simulation and its Application to Engine Warmup](#)
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Gamma Technologies; Ted Straten, DAF Trucks
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基于GT-Drive的Nürburgring跑道模拟
Carsten Dieterich and Christof Schernus, FEV Motorentechnik
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Jon Downing, Cosworth Technology
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Gamma Technologies; Johan Lennblad and Said Tabar, Volvo Car
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Paul Blumberg, Social Profit Network, Inc.
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- [SI Engine Coldstart Simulation Using GT-POWER](#)
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- [Development of a DVCP Strategy using Part Load Engine Modeling](#)
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基于GT-POWER的装配涡轮增压柴油机的汽车流体动力学瞬态响应模拟
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Ludek Pohorelský, Jan Macek, Miloš Polášek, Oldrich Vítek, Czech Technical University in Prague

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- [Modeling of Engine Block and Driveline Vibration as Affected by Combustion](#)
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利用详细动力学机理的涡轮增压HCCI发动机分析
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Gregory J. Hampson, Engine Consulting Services QuEST-Schenectady.
- [Modeling Continuously-Regenerating Soot Filters with GT-Power](#)
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John J. Kasab, Scania CV AB.
- [Experimental and Computational Analysis of a High Performance Motorcycle Engine](#)
高性能摩托车发动机的试验和计算分析
F. Millo, M. Badami, G. Giaffreda, Dipartimento Di Energetica Politecnico Di Torino.

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Suresh Sriramulu, Patrice D. Moore, J.P. Mello, Robert S. Weber, Arthur D. Little, Inc.
- [Analysis of Alternative EGR Systems on the Deutz BF6M 2013C Diesel Engine](#)
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Frank Schmitt, Deutz.
- [Derivation of a Mean Value Model from a Detailed Model](#)
从详细模型推导出平均值模型
Martin Rauscher, Christof Schernus, FEV Motorentchnik; John Silvestri, Gamma Technologies.
- [Transient Simulation of a Turbocharged Diesel Engine with Simulink ECU Control](#)
具有SIMULINK ECU控制的涡轮增压柴油机的瞬态模拟

Francesco Cianflone, Umberta Nasi, FIAT CRF.

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Sten Isaksson, Helsinki University of Technology.
- [GT-Power/Simulink Simulation as a Tool to Improve Individual Cylinder AFR Control in a Multi-Cylinder S.I. Engine](#)
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Richard Stobart, Rob Bowyer, Arthur D. Little, Inc.
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