



\$119.95

Combustion & Emission Control for SI Engines: Modeling and Experimental Studies

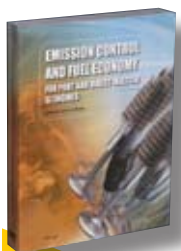
By John H. Johnson

Combustion & Emission Control for SI Engines: Modeling and Experimental Studies is a collection of 45 SAE technical papers that covers advanced emission measurements, combustion, exhaust after-treatment systems, fuel and lubricant effects on emissions, modeling of in-cylinder processes, and particle control and measurement.

693 pp., Paperbound 2005.
ISBN: 978-0-7680-1545-4

SAE Member Price \$95.96

Product Code: PT-121



\$119.95

Emission Control and Fuel Economy for Port and Direct Injected SI Engines

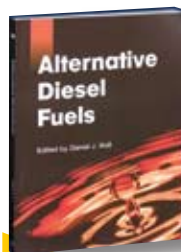
By John H. Johnson

Emission Control and Fuel Economy for Port and Direct Injected SI Engines is a collection of 45 SAE technical papers that covers the fundamentals of gasoline direct injection (DI) engine emissions and fuel economy, design variable effects on HC emissions, and advanced emission control technology and modeling approaches.

689 pp., Paperbound 2005.
ISBN: 978-0-7680-1121-0

SAE Member Price \$95.96

Product Code: PT-91



\$89.95

Alternative Diesel Fuels

By Daniel J. Holt

This second edition explores the latest electronic engine control advances and technologies and features 25 technical papers, none of which were included in the book's first edition. The book closely examines the many areas surrounding electronic engine control technologies, including:

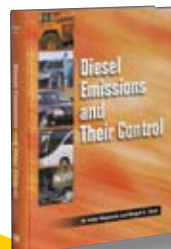
- specific engine controls
- diagnostics
- engine modeling
- innovative solid-state hardware and software systems
- communication techniques for engine control
- neural network applications
- the future of electronic engine controls

320 pp., Paperbound 2004.

ISBN: 978-0-7680-1331-3

SAE Member Price \$71.96

Product Code: PT-111



\$149.95

Diesel Emissions and Their Control

By Magdi K. Khair and W. Addy Majewski

This book will assist readers in meeting today's tough challenges of improving diesel engine emissions, diesel efficiency, and public perception of the diesel engine. It can be used as an introductory text, while at the same time providing practical information that will be useful for experienced readers.

This comprehensive book contains 23 chapters, which are separated into 5 main sections.

- Diesel Engine Basics
- Diesel Emissions
- Diesel Fuels
- Emission Control through Engine Design
- Exhaust Gas Aftertreatment

584 pp., Hardbound 2006.

ISBN: 978-0-7680-0674-2

SAE Member Price \$119.96

Product Code: R-303



\$79.95

Practical Diesel-Engine Combustion Analysis

By Bertrand Hsu

This book examines some basic characteristics of diesel engine combustion process, and describes the commonly used tool to analyze combustion - heat release analysis. In addition, *Practical Diesel-Engine Combustion Analysis* describes the performance changes that might be encountered in the engine user environment, with a goal of helping the reader analyze his own practical combustion problems.

160 pp., Hardbound 2002.

ISBN: 978-0-7680-0914-9

SAE Member Price \$63.96

Product Code: R-327



\$29.99

Reduced Emissions and Fuel Consumption in Automobile Engines

By Fred Schafer and Richard van Basshuysen

This book covers the underlying processes which cause pollutant emissions and explores possibilities for their reduction.

206 pp., 8 Chapters, Hardbound 1995.

ISBN: 978-1-56091-681-9

SAE Member Price \$23.99

Product Code: R-157



\$99.95

Nonlinear and Hybrid Systems in Automotive Control

By Rolf Johansson and Anders Rantzer

A new generation of strategies for vehicle and engine control systems has become necessary because of increasing requirements for accuracy, ride, comfort, safety, complexity, and emission levels. In contrast with earlier systems, new control systems are based on dynamic physical models and the principles of advanced nonlinear control.

Subjects include:

- Vehicle dynamics and active suspension
- Anti-lock braking systems and optimal braking control
- Combustion-engine control
- Stability analysis of hybrid systems
- Modeling of driver position and behavior

ISBN Number: 978-0-7680-1137-1

SAE Member Price \$79.96

Product Code: R-348



\$119.95

Technologies for Near-Zero-Emission Gasoline-Powered Vehicles

By Fuquan Zhao

Dr. Fuquan (Frank) Zhao and experts in the field address a broad spectrum of key research and development issues in the rapidly progressing area of near-zero-emission gasoline-powered vehicles. Written in response to the increasingly stringent emissions legislation, this book provides the reader with a concise introduction to state-of-the-art technology developments in near-zero-emission gasoline-powered vehicles.

480 pp., Hardbound 2006.

ISBN: 978-0-7680-1461-7

SAE Member Price \$95.96

Product Code: R-359

Seminars and e-Seminars:

New! Introduction to Hybrid and Electric Vehicle Battery Systems Seminar

New! Internal Combustion Systems: HCCI, DoD, VCT/VVT, DI and VCR Seminar

Diesel Engine Technology

Also available as an e-Seminar!

Diesel Engine Technology Academy

Fundamentals of Hybrid Electric Vehicles Seminar

Fundamentals of Modern Vehicle Transmissions Seminar

Also available as an e-Seminar!

Combustion and Emissions for Engineers Seminar

Catalytic Converters: Design and Durability Seminar

Also available as an e-Seminar!

Standards Reference Products

SAE Ground Vehicle Standards on CD-ROM with Update Service

This CD-ROM, which contains over 1,800 individual standards, recommended practices, and information reports pertaining to passenger cars, trucks, motorcycles, trailers, and snowmobiles, agricultural tractors, and more. Includes J-1939 and related documents. This CD is updated quarterly for one year so you will receive new, revise and cancelled standards regularly.

store.sae.org