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Collana	Forschungsberichte aus dem Institut für Kolbenmaschinen
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Sommario/riassunto	<p>Long description: This thesis discusses experimental investigations to reduce particle number emissions from gasoline engines with direct injection. Measures on a single cylinder research engine with combined usage of a particle number measurement system, a particle size distribution measurement system as well as optical diagnostics and thermodynamic analysis enable an in-depth assessment of particle formation and oxidation. Therefore, numerous optical diagnostic techniques for spray visualisation (Mie-scattering, High-Speed PIV) and soot detection (High-Speed-Imaging, Fiber optical diagnostics) are deployed. Two injectors with different hydraulic flows but identical spray-targeting are characterised and compared by measurements in a pressurised chamber. The operation at higher engine load and low engine speed is in the focus of the experimental work at the engine test bench. Thereby, the low flow velocities in the combustion chamber, caused by the low engine speed, as well as the large amount of fuel injected are major challenges for the mixture formation process. A substantial part of the thesis thus focusses on the detailed analysis of the mixture formation process, which is consisting of fuel injection, interaction of the in-cylinder charge motion with the fuel injected and the fuel properties. Measures for the optimisation of the mixture formation process and the minimisation of the particle number</p>

emissions are analysed and evaluated. The charge motion is manipulated by the impression of a directed flow, the variation of the valve timings and valve open curve. The injection process is influenced by a reduction of the hydraulic flow of the injector and an increase of the injection pressure up to 50 MPa. The investigations show fundamental effects and potentials of different variation parameters concerning their emissions reduction potential at the exemplary operation at high engine load. Due to the simultaneous analysis of the in-cylinder charge motion and a thermodynamic analysis, the results can be transferred to different engines.

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2. Record Nr.	UNINA9910985676403321
Autore	Sarkaya Dilek Bulut
Titolo	Making of Afro-Caribbean Consciousness and Identity in the Poetry of Linton Kwesi Johnson, David Dabydeen, and Fred D'Aguiar
ISBN	9781680536997
Edizione	[1st ed.]
Descrizione fisica	1 online resource (204 p.)
Disciplina	821.92
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	In the context of a diversified and pluralistic arena of contemporary literature embodying previously marginalized voices of region, ethnicity, gender, and class, black poets living in Britain developed a distinct branch of contemporary poetry. Having emerged from a struggle to give voice to marginalized groups in Britain, the poetry of Linton Kwesi Johnson, David Dabydeen, and Fred D'Aguiar helped define national identity and explored racial oppression. Motivated by a sense of responsibility towards their communities, these poets undertook the task of transmitting black history to young blacks who risked losing ties to their roots. They also emphasized the necessity of fighting racism by constructing an awareness of Afro-Caribbean

national identity while establishing black cultural heritage in contemporary British poetry. In this book, Turkish literary scholar Dilek Bulut Sarkaya examines their works. Linton Kwesi Johnson's *Voices of the Living and the Dead* (1974), *Inglan is a Bitch* (1980), and *Tings an Times* (1991) open the study, followed by David Dabydeen's *Slave Song* (1984), *Coolie Odyssey* (1988), and *Turner* (1994) and, finally, Fred D'Aguiar's *Mama Dot* (1985), *Airy Hall* (1989) and *British Subjects* (1993).

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