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As we are moving towards complete electrification from combustion engine to electric motor, the system design approach also changes due to application. For a range of 100-150 kg EV powertrain weight, number of mounts as well as mount locations, orientations and stiffnesses plays a significant role d

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Recent design improvements with gasoline engines are discussed, pointing-out certain aspects applicable to diesels. The paper concludes that by combining further-advanced systems with some of the best existing technologies, the next generation of "300 and 400 Series" engines intended for mid-range truck applications in Classes 4 to 6 could become a major export item.

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José F. Regueiro - Profile - SAE International

Vehicular Engine Design List of Chapters 1 The internal-combustion engine: an introduction 1.1 Heat engines and internal combustion engines 1.2 The reciprocating piston engine 1.3 Engine operating cycles 1.4 Supercharging and turbocharging 1.5 Production engine examples 1.6 Basic measures 1.7 Recommendations for further reading 2 Engine maps, customers, and markets 2.1 Engine mapping 2.2 ...

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Mathematical model of the engine under the steady state and general dynamics equation of the Continuously Variable Transmission(CVT) are given, the regulating principle of the operating state of the engine is analyzed, and the conjugate gradient method employed to solve the optimal control problem of the vehicle in the cruise control is described, so the operating state of the engine could be ...

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New-gen torque converter aims at 2017 vehicle intro - SAE International By ATI in 10R90 April 26, 2017 A new torque converter that is smaller and lighter in weight than its predecessor adds crucial functionality for vehicles powered by downsized engines paired with an automatic transmission.

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Considering the Rocam engines produced in Brazil, there are some possibilities for the base engine of the CNG Bi fuel vehicle. The ethanol Rocam engine with a compression ratio (CR) of 12,2:1, the gasohol Rocam engine installed with a CR of 9,5:1 and a prototype Rocam engine with intermediate compression ratio between ethanol and gasohol of 10,8:1.

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