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The Analysis of the Fuel Injection Process in High Speed Diesel Engine

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Thers are many reports for the fuel injection process in diesel engine and in this paper, one of the numerical calculating method is described. It is the method in which characteristics is applied under consideration of the friction on pipe wall.

As the equations of continuity for the pump and nozzle are approximated by interporating equations, they can be connected by characteristics and then the analysis of the fuel injection process becomes possible.

Such results are shown in figures. We can know the pressure variation, but the results do not agree with their experimental results perfectly. If it is small enough, the difference of two results will be small.

It is described in the appendix of this paper how to simulate the wave function by a electronic analog computor with two dead time genetators. This method is not attempted yet, but the such simulation will be possible. Though it has a few disadvantages, it will be very useful for its simple circuit.

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