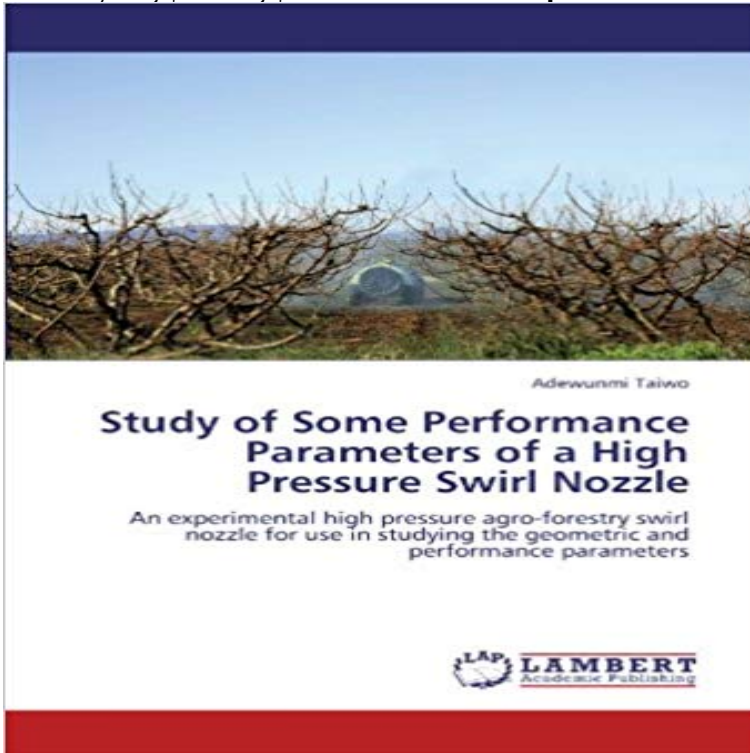


Study of Some Performance Parameters of a High Pressure Swirl Nozzle: An experimental high pressure agro-forestry swirl nozzle for use in studying the geometric and performance parameters



Equations of dynamic systems in droplet distributions and boundary value flows in the swirl chamber were used in conjunction with momentum equations of forces on moving curved vanes to develop mathematical models. The models were used to simulate the post-exit behaviour of moving droplets in still air, the theoretical performance of a high pressure agro-forestry swirl nozzle as well as the angular acceleration of its swirl element and attained rotative speed after ten seconds of acceleration when made with steel, aluminium, brass and plastic. The extreme conditions that sensitively influenced the spray performance at high and low flow rates as well as nozzle supply pressures were identified from the simulation results and used as the basis for the development of an experimental high pressure agro-forestry swirl nozzle prototype. The developed nozzle prototype was installed on a developed and calibrated test rig in the laboratory. The nozzle-test rig aggregate was used to validate the simulated mathematical models. The nozzle exit orifice diameter to swirl chamber diameter ratio was used as the independent variable of the fitted curves into observed curves of the studied parameters.

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