

충돌 제트에 의해 형성된 액체면으로부터의 액띠 분열 모델

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Two liquid streams, which have the same diameter and momentum, in the impinging-jet injector form the liquid sheet perpendicular to the plane their axes. The high pressure is generated to destroy the vertical momentu liquid streams with sufficient momentum, and it causes waves which make sheet be unstable. After the growth of waves the liquid sheet fragm ligaments that finally break into drops. The resultant ligaments and drops efficiency and the instability of liquid rocket engines by their d characteristics.

Calculation of the breakup length and geometry of the liquid sh information of breakup azimuthal angle and mass of a ligament. The frequency of ligaments is suggested in this paper by comparison of infl through injectors and outflow mass of a ligament.

Further studies on the ligament dynamics combined with their spacia distribution and aerodynamic breakup phenomena should be followed to shedding from ligaments.