Design and analysis of water jet nozzle

Water jet cutting is an industrial cutting tool used to cut wide variety of materials using a high pressure of water or a mixture of water and abrasive material to cut hard materials like granite or metals. pure water jet and water-only cutting refer to water jet cutting without the use of added abrasives, often used for softer materials such as wood or rubber.

It is the preferred method when the materials being cut are sensitive to the high temperatures generated by other methods. Water jet cutting is used in various industries, including mining and aerospace, for cutting, shaping, and reaming.

Here we design the model of water jet nozzle and perform the CFD analysis in solid works premium 2014.