

CHAPTER 5

CENTRIFUGAL PUMP IMPELLER VANE PROFILE

The concept of impeller design and the application of inverse design for the vane profile construction are discussed in this chapter. The vane profile plays a vital role to develop the streamlined flow. In conventional design, the designer uses vane arc method to develop the profile. Due to this approach, the eddy and flow reversal may occur in the flow path. The main focus on inverse design concept is explained here in detail for the vane profile construction. Subsequently, the different vane profile geometry is constructed based on this approach.

The design of the centrifugal pump impeller is not a universally standardized one. Every firm depends on its designer's experience, expertise and technical intuition to design a good impeller. The fact that the impeller flow physics has not been understood fully has led the designers to fall back on tried and tested old design methodologies.

5.1 CONVENTIONAL DESIGN

Impeller dimensions have always been a direct fall down of the head it has to develop and the discharge it has to supply. Previously used empirical formulae and thumb rules have always been the design aid for designers. The different methods developed by highly experienced and accomplished hydraulic engineers like Lebonoff, Kurowzski, Anderson and Lazarkiewicz also have elements of empirical design.

Chapter 5 Centrifugal Pump Impeller Vane Profile

Shodhganga

Clemens Wendtner



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