

Figure 11.3 Inclined column crystallizer.

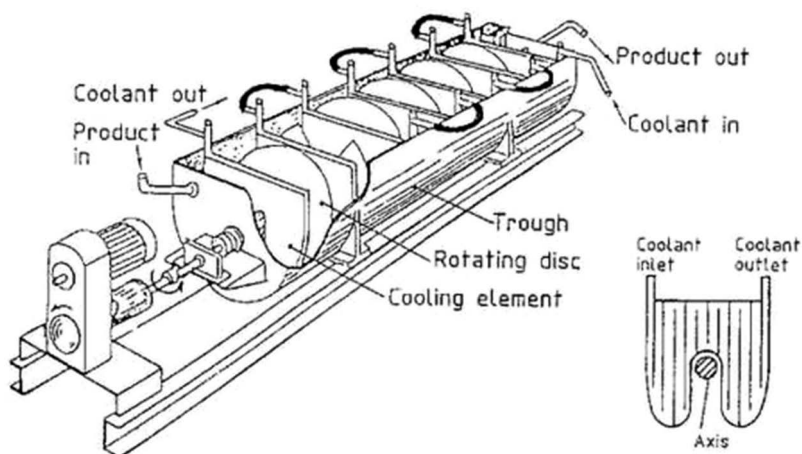


Figure 11.4 Cooling disk crystallizer. Reprinted from P. J. Diepen, O. S. L. Bruinsma and G. M. van Rosmalen, *Crystal Size Engineering in Melt Suspension Crystallization, Chemical Engineering Research and Design*, vol. 75, pp. 171–175, Copyright 1997, with permission from Elsevier.

11.4.1.3 Cooling Disk Crystallizer

A cooling disk crystallizer could be regarded as a cascade of several well mixed crystallizers with back mixing, as shown in Figure 11.4.³² The horizontal crystallizer trough is divided into compartments by cooling elements and each of the compartments works like an MSMPR crystallizer. Slurries generated from the former compartment can continuously flow into the next one *via* the openings in the bottom of the cooling elements. By adjusting the