

Abstract

Low switching and higher the switching losses as present in the thyristerised induction heater, can be minimized by using high frequency solid state devices e.g. mosfet, igbt. By selecting the proper magnetic material of core for matching transformer and it's turns ratio and the higher value of switching frequency than resonant frequency, we can get continuously conducted current waveform. Because of that eddy current flows through the coil and the sufficient eddy current losses will start heating of mild steel.