

The Electrical Machines Problem Solver

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wave-form and frequency of generated emf generated voltage and terminal voltage armature windings regulation and efficiency a c motor characteristics noload and locked-rotor tests power torque and efficiency chapter 8 synchronous generators synchronous reactance and synchronous impedance zero-power-factor test and potier s triangle synchronous generator characteristics regulation and field current losses and efficiency parallel operation of synchronous generators chapter 9 synchronous motors synchronous motor characteristics torque torque angle hunting oscillation circle chart and v-curves power power factor and efficiency synchronous motor dynamics chapter 10 induction machines starting an induction motor determination of equivalent circuit parameters synchronous speed slip torqueslip curves pull-out torque and plugging power power factor torque and efficiency performance computations circle diagram sound intensity computation chapter 11 special machines permanent magnet generators reluctance motors repulsion motors reactors rectifiers converters synchronous condensers chapter 12 transmission and distribution of power transmission line reactance and capacitance transmission line calculations distribution circuits three wire system section ii ii-1 fundamentals of electricity ii-2 electrical machines dc generators dc motors ac generators ac motors ii-3 wire and motor data index what this book is for students have generally found electrical machines a difficult subject to understand and learn despite the publication of hundreds of textbooks in this field each one intended to provide an improvement over previous textbooks students of electrical machines continue to remain perplexed as a result of numerous subject areas that must be remembered and correlated when solving problems various interpretations of electrical machines terms also contribute to the difficulties of mastering the subject in a study of electrical machines rea found the following basic reasons underlying the inherent difficulties of electrical machines no systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems this results from numerous different conditions and principles involved in a problem that leads to many possible different solution methods to prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps making this task more burdensome than solving the problem directly due to the expectation of much trial and error current textbooks normally explain a given principle in a few pages written by an electrical machines professional who has insight into the subject matter not shared by others these explanations are often written in an abstract manner that causes confusion as to the principle s use and application explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied the numerous possible variations of principles and their applications are usually not discussed and it is left to the reader to discover this while doing exercises accordingly the average student is expected to rediscover that which has long been established and practiced but not always published or adequately explained the examples typically following the explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles the explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps and as a result requires the reader to figure out the missing information this leaves the reader with an impression that the problems and even the subject are hard to learn - 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