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1 electrostatics field and potential introduction coulomb s law and its vector form law of superposition of charges electric field and electric field intensity charge distribution calculation of electric field strength electric field due to an electric dipole electric field due to uniformly charged rod or wire electric field due to an uniformly charged ring line integral of electric field electric potential difference and potential electric field as negative gradient of potential calculation of electric potential electric potential and field due to an electric dipole electric potential energy torque on an electric dipole in uniform electric field potential energy of an electric dipole in an electric field the moments of charge distribution concept of solid angle w electric flux gauss s theorem and gauss s law differential form of gauss s law applications of gauss s law conductors in electrostatic field electric field just outside a charged conductor coulomb s law mechanical force on a charged conducting surface method of images 2 magnetostatics introduction magnetic field and magnetic flux force on moving charge and definition of magnetic induction b lorentz s force motion of a charged particle in a uniform magnetic field force on a current carrying conductor in a magnetic field moment of couple on a current loop in a magnetic field magnetic dipole moments of a current loop force between electric current magnetic induction magnetic field due to current carrying conductor boit savart law application of boit savart law magnetic field due to current in a straight conductor magnetic field on the axis of a circular coil magnetic field due to a solenoid ampere s law in circuital form application of ampere s law curl of magnetic field vector b differential form of ampere s law divergence of magnetic field vector b field due to a magnetic dipole magneto motive force mmf magnetic scalar potential magnetic vector potential 3 electromagnetic induction electromagnetic induction magnetic flux faraday s law of electromagnetic induction lenz s law origin of induced electromotive force integral and differential forms of faraday s laws self induction energy stored in a magnetic field mutual inductance transformer motion of electron in changing magnetic field betatron electromagnetic equations equation of continuity maxwell s displacement current maxwell s electromagnetic equations maxwell s equations in integral form moving coil ballistic galvanometer 4 dielectrics electrical conductors and insulators dielectric in an electric field dependence of electric force between point charges on the nature of medium dielectric polarisation and polarisation vector polarisability microscopic and macroscopic fields in a dielectric electric polarisation p

displacement  $d$  and relation between  $d$ ,  $e$  and  $p$  clausius mossotti relation molecular field dielectrics boundary conditions on the field vectors 5 magnetic properties of matter the three magnetic vectors  $b$ ,  $h$  and  $m$  magnetic susceptibility and permeability properties of diamagnetic substances properties of paramagnetic substances properties of ferro magnetic substances curie temperature  $b$ ,  $h$  loop and magnetic hysteresis demagnetisation experimental tracing of hysteresis loop ballistic method energy loss due to magnetic hysteresis choice of materials 6 electro magnetic waves introduction maxwell's equations wave equations satisfied by  $e$  and  $b$  electromagnetic wave for free space or vacuum solution of electromagnetic wave equations plane electromagnetic waves characteristics of plane electromagnetic waves in vacuum poynting vector energy density in electro magnetic waves energy density for electromagnetic waves momentum in an electromagnetic wave radiation pressure reflection and refraction of electromagnetic waves boundary conditions at the interface between two media for electromagnetic field vectors reflection and refraction of plane electromagnetic waves at a plane boundary of a dielectric total internal reflection of electromagnetic waves polarisation by reflection and fresnel's relations polarisation by reflection and brewster's law faraday effect electromagnetic waves in conducting medium ionosphere experimental determination of critical frequencies and virtual heights maximum usable and optimum frequencies skip distance logarithmic and antilogarithmic tables

in this modern treatment of the topic rolland trapp presents an accessible introduction to the topic of multivariable calculus supplemented by the use of fully interactive three dimensional graphics throughout the text multivariable calculus opens with an introduction to points curves and surfaces easing student transitions from two to three dimensions and concludes with the main theorems of vector calculus all standard topics of multivariable calculus are covered in between including a variety of applications within the physical sciences the exposition combines rigor and intuition resulting in a well rounded resource for students of the subject in addition the interactive three dimensional graphics accessible through the electronic text or via the companion website enhance student understanding while improving their acuity the style of composition sequencing of subjects and interactive graphics combine to form a useful text that appeals to a broad audience students in the sciences technology engineering and mathematics alike

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the introduction of angular momentum earlier before collisions

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