

Gradien Divergensi Dan Curl

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Wrede Erfan Achmad Dahlan Joseph A. Edminister Elin Yusibani Indonesia. Panitia Pembina
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buku elektromagnetika ini adalah buku teks yang cukup ideal untuk materi kuliah selama satu semester mahasiswa jenjang s1 jurusan teknik elektro pada tingkat awal yang menempuh mata kuliah fisika listrik dan elektromagnetika buku ini diawali dengan tinjauan secara umum definisi elektromagnetika dan aplikasi elektromagnetika di berbagai disiplin ilmu dan diakhiri dengan tinjauan perbedaan kajian teori medan elektromagnetika dan teori rangkaian listrik yang merupakan dua teori yang populer di bidang teknik elektro untuk menjelaskan konsep dasar notasi representasi prinsip dan hukum yang terkait dengan elektromagnetika diperlukan analisis vektor sebagai alat matematika yang sangat cocok dan komprehensif menjelaskan teori medan elektromagnetik yang dirangkum oleh persamaan maxwell dalam bentuk diferensial dan integral buku ini membahas pokok bahasan medan elektrostatis diawali oleh analisis vektor dan hukum hukum yang terkait dengan medan elektrostatis yaitu hukum coulomb gauss teorema divergensi teorema stoke dan diakhiri dengan persamaan poisson dan laplace untuk mempermudah pembaca dalam mempelajari elektromagnetika penulis berusaha menampilkan detail detail matematika dengan urutan yang mudah dipahami dan memberikan contoh soal dan latihan soal yang cukup berlimpah sehingga diharapkan pembaca dapat melakukan pembelajaran secara mandiri

buku ajar ini dibuat sebagai pendamping untuk mata kuliah fisika matematika i yang diajarkan untuk mahasiswa program studi sarjana fisika fakultas matematika dan ilmu pengetahuan alam fmipa universitas syiah kuala pada tahun kedua masa perkuliahannya semester 3 buku ajar ini terdiri dari deret tak hingga pada bab satu selanjutnya bilangan kompleks persamaan linear vektor matrik dan determinan diferensiasi parsial pada bab empat integral lipat dan terakhir adalah analisis vektor

penulisan buku ini dilatarbelakangi oleh adanya kegiatan kompetisi tahunan untuk mahasiswa yang diselenggarakan oleh kemendikbud berupa olimpiade nasional bidang matematika dan ipa tingkat perguruan tinggi atau on mipa pt buku ini merupakan seri kedua dari 4 buku yang direncanakan untuk ditulis buku ini merupakan kumpulan catatan dan analisis penulis terhadap kegiatan on mipa pt bidang fisika untuk bidang uji elektrodinamika dan dimaksudkan sebagai panduan dalam memberikan pendampingan bagi mahasiswa yang mau berkompetisi dalam ajang tersebut bagian terbesar dari buku ini berisi contoh soal on mipa pt bidang uji elektrodinamika baik tingkat provinsi maupun nasional berikut referensi terkait beberapa contoh soal diberikan padanannya dalam buku referensi buku ini juga menyajikan pembahasan soal elektrodinamika tidak ada klaim akan kebenaran penyelesaian yang diberikan sekalipun demikian diharapkan jawaban yang ada mampu menginspirasi mahasiswa dan diharapkan bermanfaat bagi mereka yang ingin mempersiapkan diri untuk ajang tersebut

buku matematika teknik ini disusun untuk memenuhi kebutuhan mahasiswa fakultas teknik program studi teknik mesin dan program studi teknik elektro di unika atma jaya jakarta khususnya

dan mahasiswa fakultas teknik di luar unika atma jaya pada umumnya materi buku ini meliputi persamaan diferensial aplikasi persamaan diferensial tingkat satu derajat satu persamaan diferensial tingkat n dengan koefisien tetap persamaan diferensial linier dengan koefisien variable persamaan diferensial simultan bilangan kompleks fungsi limit dan kontinuitas bilangan kompleks diferensial fungsi kompleks integral dari fungsi kompleks teorema residu penyusun menyadari bahwa buku ini jauh dari sempurna untuk itu segala kritik dan saran saran yang membangun sangat diharapkan untuk penyempurnaan buku ini akhir kata penulis mengucapkan terima kasih kepada penerbit universitas katolik indonesia atma jaya jakarta yang telah bersedia menerbitkan buku ini

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