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MAE 150. Computer-Aided Design (4) Computer-aided analysis and design. Design methodology, tolerance analysis, Monte Carlo analysis, kinematics and computer-aided design of linkages, numerical calculations of moments of inertia, design of cams and cam dynamics; finite element analysis, design using Pro-E, Mechanica Motion and Mechanica Structures.

Mechanical and Aerospace Engineering

A CT scan or computed tomography scan (formerly known as computed axial tomography or CAT scan) is a medical imaging

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technique used in radiology to get detailed images of the body noninvasively for diagnostic purposes. The personnel that perform CT scans are called radiographers or radiology technologists.. CT scanners use a rotating x-ray tube and a row of detectors placed in the gantry to ...

CT scan - Wikipedia

com·put·er (kəm-pyoʊoʊtʔr) n. 1. a. A device that computes, especially a programmable electronic machine that performs high-speed mathematical or logical operations or that assembles, stores, correlates, or otherwise processes information. b. Such a device along with peripherals, especially a monitor, keyboard, and mouse. 2. One who computes ...

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AE 6380. Fundamentals of Computer-aided Design and Engineering. 3 Credit Hours. Introduction to the principles of geometric modeling; 2-D systems; 3-D wireframe, surface and solid representations; mathematical representations of curves,

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surfaces, solids; application to aerospace design problems. Credit not allowed for both AE 4375 and AE 6380.

Aerospace Engineering (AE) < Georgia Tech
Computer aided design fundamentals and formulation of the stiffness matrix and load vector 1D and 2D elements based on variational principles. Analytical and finite element solution of vibration and heat transfer problems. Explore applications of CAD/FEM packages in design case studies.

Mechanical Engineering, B.S.M.E. < West Virginia University
In-depth analysis and design of tension members, columns, beams, beam-columns, and plate girders. Emphasis on Load and Resistance Factor Design. Elastic and inelastic buckling of

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members and member elements. Investigation of amplification factors for members subject to combined bending and axial load and to combined bending and torsion.

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400 Level Courses. CEE 402. Professional Issues and Design
Prerequisite: Senior standing. (4 credits) Multidisciplinary team design experience including consideration of codes, regulations, alternate solutions, economic factors, sustainability, constructability, reliability and aesthetics in the solution of a civil or environmental engineering problem.

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electric drive motors represent an effective method of providing propulsion to vehicles which otherwise were not designed to have driven wheels. That is, they're great for EV hacking and conversion. They're compact and modular, require no ...

Make Your Own Miniature Electric Hub Motor : 14 Steps ...
ELEC 6481 Computer-Aided Analysis and Design of Electric Machines (4 credits) Prerequisite: ELEC 6411. This course uses machine design software to aid in the analysis and design of electrical machines, which is offered in a computer-aided design (CAD) environment.

Engineering Courses - Concordia University

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__email__ with instructions for resetting your password

Home Page: Oral Surgery, Oral Medicine, Oral Pathology and

...

Orthotics (Greek: ορθωτική, romanized: ortho, lit. 'to straighten, to align') is a medical specialty that focuses on the design and application of orthoses. An orthosis (plural: orthoses) is "an externally applied device used to modify the structural and functional characteristics of the neuromuscular and skeletal system". An orthotist is the primary medical clinician responsible for the ...

Orthotics - Wikipedia

It is an integral part of microwave circuit performance

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visualization, modern computer-aided design (CAD) tools, and RF/microwave test instrumentation. Basically, a Smith chart is a polar graph of normalized line impedance in the complex reflection coefficient plane. Let $Z = R + jX$ be the impedance at some location along a lossless line. The ...

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