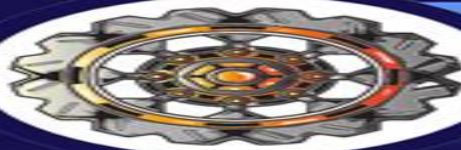


ENGINEERING METALLURGY

SYLLABUS



ALLOYS

Constitution of alloys - Solid solutions, substitutional and interstitial - phase diagrams, isomorphous, eutectic, eutectoid, peritectic, and peritectoid reactions, Iron - carbon equilibrium diagram, Classification of steel and cast iron microstructure, properties and application.

HEAT TREATMENT

Definition - Full annealing, stress relief, recrystallization and spheroidising - normalising, hardening, and Tempering of steel, Isothermal transformation diagrams - cooling curves superimposed on, I-T diagram CCR - Hardenability, Jominy end quench test - Austempering, martempering - case hardening, carburizing, Nitriding, cyaniding, carbonitriding - Flame and Induction hardening - Vacuum and Plasma hardening.

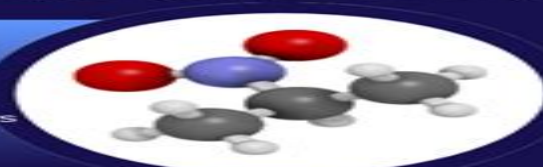


FERROUS

Effect of alloying additions on steel- α and ρ stabilizers- stainless and tool steels - HSLA, Maraging steels - Cast Iron - Grey, white, malleable, spheroidal - alloy cast irons, Copper and copper alloys - Brass, Bronze and Cupronickel - Aluminium and Al-Cu - precipitation strengthening treatment - Bearing alloys, Mg-alloys, Ni-based super alloys and Titanium alloys.

NON-METALLIC

Polymers - types of polymer, commodity, and engineering polymers - Properties and applications of various thermosetting and thermoplastic polymers (PP, PS, PVC, PMMA, PET, PC, PA, ABS, PI, PAI, PPO, PPS, PEEK, PTFE, Polymers - Urea and Phenol formaldehydes) - Engineering Ceramics - Properties and applications of Al_2O_3 , SiC, Si_3N_4 , PSZ, and SiALON - Composites - Classifications - Metal Matrix and FRP - Applications of Composites.



MECHANICAL PROPERTIES

Mechanisms of plastic deformation, slip, and twinning - Types of fracture - Testing of materials under tension, compression, and shear loads - Hardness tests (Brinell, Vickers, and Rockwell), hardness tests, Impact test load, and Charpy, fatigue, and creep failure mechanisms.

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M Walker



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Journal of the South African Institute of Mining and Metallurgy South African Institute of Mining and Metallurgy, 1998
Calendar University of Pretoria, 1908 *The South African Mechanical Engineer* , 1976 **Education and Research for the Mineral Industry for the Future** , 1986 **Comprehensive Dissertation Index** , 1989 The Transvaal Educational News , 1933 *Journal of the Institute of Metals* Institute of Metals, 1958 *Bulletin of the Institute of Metals* Institute of Metals, 1959 The Mining Journal, Railway and Commercial Gazette , 1902 *Nature* , 1917 *South African Mining & Engineering Journal* , 1981 **Earth and Mineral Sciences** , 1994 **South African Mining and Engineering Journal** , 1981 **Engineering** , 1939-07 *South African Journal of Science* , 1991 Wireless World and Radio Review , 1913 **Mining Journal, Railway & Commercial Gazette** , 1908 **The Mining Magazine** , 1934 Chemistry and Industry , 1952 **Metal Industry** , 1958 With which is incorporated Metals The Industry of metals The Metal industries review and The Brass world

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