

Advanced Heat and Mass Transfer - Web course

COURSE OUTLINE

Unified point of view to energy and mass transport.

Steady and unsteady mass and heat diffusion in solids and stagnant liquids.

Laminar, forced and natural convection.

Equations of change for non-isothermal systems and multi-component systems.

Analytical and approximate solutions to equations of change with applications to problems in research and design.

Heat and Mass Transport in Turbulent Flows.

Diffusion under various driving forces and with chemical reaction.

Energy and mass transport in boundary layers with relevant analogies.

Simultaneous heat and mass transfer.

Multi-component mass transport for dilute solutions.

COURSE DETAIL

Sl. No.	Topic	No. of lectures
1	Module 1. THE EQUATION OF "CONTINUITY": 6 lectures (Lectures 1-6) (i) Overall Mass Balance (ii) Momentum Balance (iii) Energy Balance (iv) Special Mass Balance (v) Equation for the fluxes	6
2	Module 2. "DIFFUSIVE" HEAT AND MASS TRANSFER: 14 lectures (Lectures 7-20) (i) Steady and Unsteady/One and Multiple Dimensions (ii) Mass Transfer with Chemical Reaction (iii) Perturbation Techniques (iv) Moving Boundary Problems (v) Simultaneous Heat and Mass Transfer	14
3	Module 3. "CONVECTIVE" HEAT AND MASS TRANSFER: 12 lectures (Lectures 21-32) (i) Flow Inside Ducts (ii) Dispersion (iii) Laminar Boundary Layers (iv) Mass Transfer with Chemical Reactions (v) Asymptotic Methods (vi) Simultaneous Momentum, Heat and Mass Transfer (vii) Natural Convection	12



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Chemical Engineering

Pre-requisites:

1. Transport Phenomena (UG level).
2. Heat Transfer (UG level).
3. Mass Transfer (UG level).

Additional Reading:

1. Whitaker, S., Fundamental Principles of Heat Transfer, New York, Pergamon, 1997.
2. Cussler, E. L., Diffusion, Mass Transfer in Fluid Systems, Cambridge, 1985.

Coordinators:

Dr. Saikat Chakraborty
Department of Chemical Engineering IIT Kharagpur

Nptel Syllabus Metrology

N Noddings



Nptel Syllabus Metrology:

Metrology for Engineers John Frederick Wise Galyer, Charles Reginald Shotbolt, 1990-01 **New Frontiers for Metrology: from Biology and Chemistry to Quantum and Data Science** M. J. T. Milton, D. S. Wiersma, C. J. Williams, 2021-12-22 The use of standard and reliable measurements is essential in many areas of life but nowhere is it of more crucial importance than in the world of science and physics in particular This book contains 20 contributions presented as part of Course 206 of the International School of Physics Enrico Fermi on New Frontiers for Metrology From Biology and Chemistry to Quantum and Data Science held in Varenna Italy from 4-13 July 2019 The Course was the 7th in the Enrico Fermi series devoted to metrology and followed a milestone in the history of measurement the adoption of new definitions for the base units of the SI During the Course participants reviewed the decision and discussed how the new foundation for metrology is opening new possibilities for physics with several of the lecturers reflecting on the implications for an easier exploration of the unification of quantum mechanics and gravity A wide range of other topics were covered from measuring color and appearance to atomic weights and radiation and including the application of metrological principles to the management and interpretation of very large sets of scientific data and the application of metrology to biology The book also contains a selection of posters from the best of those presented by students at the Course Offering a fascinating exploration of the latest thinking on the subject of metrology this book will be of interest to researchers and practitioners from many fields **Metrology for Engineers** J. F. W. Galyer, C. R. Shotbolt, 1977 Metrology for engineers ,1981

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web chemical analysis carbon 3 40 3 85 phosphorous 0 10 max manganese 0 10 0 30 sulphur 0 02 max silicon 2 30 3 10 magnesium 0 07 max applications bs2789 grade 500 7 is suited for applications such as gears pistons valve bodies dies and

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0 272 copper 0 456 0 553 0 472 0 557 sulphur 0 0866 0 0116 0 0133 0 00846 phosphorus 0 0472 0 0251 0 0230 0 0232

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did something that hurt you or someone else the fire was set as an act of vengeance he swore vengeance

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