

Department of Chemical Engineering  
Fluid Mechanics 2 (Contents)

**Contents:**

1. Compressible Flow

- Sound Wave, Mach number
- Isentropic Flow

2. Measurement

- Density
- Pressure
- Rate of Flow

3. Steady State Flow through Tube

- Hydraulic and Energy Grade Lines
- Series Pipes
- Parallel Pipes

4. Fluid Flow through Bed

- Fixed Bed
- Fluidized Bed

5. Two Phase Flow

**Mark Distribution**

Project	%	Date:
Homework	%	Date:
Midterm	%	Date:
Final	%	Date:

**References:**

- 1- استریتز، ویکتور لایل، "مکانیک سیالات" علیرضا انتظاری، نوپردازان، 1379
- 2- Kreith, F., Berger, S.A.; et. al., "Fluid Mechanics; Mechanical Engineering Handbook", Boca Raton: CRD Press LLC, 1999.
- 3- McCabe, Warren Lee, "Unit Operation of Chemical Engineering ", 6<sup>th</sup> ed., 2001.
- 4- Ron Dardy, "Chemical Engineering Fluid Mechanics" second ed., Marcel Dekker, NY 2001.  
+ Handbooks such as Perry.