

**ME 498 DESIGN OF INTERNAL COMBUSTION ENGINES
(COMBUSTION MODELING OF INTERNAL COMBUSTION ENGINES)
SPRING 2024**

INSTRUCTOR:

Professor Chia-Fon Lee: E-mail: cflee@illinois.edu

TEACHING ASSISTANT:

Amr Kotb: Office: 3420 MEL; E-mail: amrmk2@illinois.edu

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REFERENCE TEXT:

“Internal Combustion Engine Modeling”, by J. I. Ramos, Hemisphere Publishing, 1989.

“Internal Combustion Engine Fundamentals”, by John B. Heywood, McGraw-Hill, 1988.

“Internal Combustion Engines: Applied Thermosciences”, by Colin R. Ferguson, John Wiley, 1986.

“The Internal-Combustion Engine in Theory and Practice”, by Charles F. Taylor, Second Edition, the M.I.T. Press, 1994.

GRADING:

4 homeworks, 50%

4 CONVERGE projects, 50%

SCHEDULE:

Two two-hours video lectures per week (released around 10 am on Tuesday and Thursday, online); and a few optional in-person lecture times to be determined.

HOMEWORK:

Assignments will be distributed periodically in class. Due date will be printed on each homework set.

OFFICE HOURS:

Conducted by TA, times and places to be determined.