

7. PRODUCTION OF TEACHING MATERIAL

2006

1. Physics 4341 Electromagnetism, co-development of lecture notes and powerpoint presentations to teach Phys 4341 with Dr. Harold Slusher, summer 2006.
2. Electromagnetism, lecture notes and powerpoint material for PHYS 5341, 52 pages, Spring 2006.

2005

3. Physics 3331 Thermal Physics, Co-development of lecture notes and powerpoint presentations to teach Phys 3331 in support to new faculty Dr. Tunna Baruah, Fall 2005.
4. Middle School Physics, Powerpoint material for a two-day workshop for UTEP's MSP Staff Developers, Dec. 2005.
5. Advanced Statistical Mechanics, lecture notes and powerpoint material for PHYS 5361, 71 pages, Fall 2005.
6. Lecture Notes: "Reacciones de Iones Pesados", prepared for a workshop for graduate physics majors held at The Universidad Nacional Autónoma de México, on June 27-8, 2005, published in "Notas, IV Escuela Mexicana de Física Nuclear", Eds. A.F. Aguilera, E. Hernandez, and J. Hirsch, Universidad Nacional Autónoma de México, 2005, Pp. 1-13, <http://www.teorica.fisica.unam.mx/escuela-2005/>.
7. Deepening Science Knowledge for High School Physics Teachers. Printed and Powerpoint material for a two-day bilingual workshop for teachers, 20 pages, July, 2005.
8. Physics for Pre-K and K Students – Bilingual Seminar for Teachers. Printed and Powerpoint material for a bilingual seminar for teachers, 80 pages, June, 2005.

2004

9. "Bohr Model Spectroscopy: in-class demonstration for PHYS 3325, Modern Physics, with Pre- and Post-Exams and Activity Guide", J. Morales, and J. A. López, Fall 2004.

2003

10. Survey of Modern Physics, web and powerpoint material for teaching PHYS 3325, fall 2003.

2002

11. "Alpha-Pix: In-class demonstration for PHYS 3325, Modern Physics, with Pre- and Post-Exams and Activity Guide", J. A. López, J. Morales, and M. Borunda, Fall 2002.

2001

12. "Planck's constant: Revision of Pre- and Post-Exams and Activity Guide", for teaching PHYS 3325, Fall 2001.
13. "PHOTOELECTRIC EFFECT: Pre- and Post-Examinations and Activity Guide" for teaching PHYS 3325, Spring 1999.
14. "Compton scattering: Revision of Pre- and Post-Exams and Activity Guide", for teaching PHYS 3325, Spring 2001.
15. "Termodinámica nuclear", chapter two in a book for senior level course on nuclear physics, published by Universidad Nacional Autónoma de México Press, Mexico City, April, 2001.

2000

16. "Lecture notes on phase transitions in nuclear matter", J. A. López and C. O. Dorso, World Scientific Publishing Co., Singapore, October, 2000, ISBN 981-02-4007-4. Book for graduate level course on nuclear physics, was in World Scientific's Best Seller list in year 2001, and was adopted in the Spring of 2001 as a textbook in Caen, France.

1998

17. "ZEEMAN EFFECT: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Fall 1998.
18. "BLACK-BODY RADIATION: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Fall 1998.
19. "COMPTON SCATTERING: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Spring 1998.

1997

20. "THE RUTHERFORD/COMPTON EXPERIMENT: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Spring 1997, tested in Fall 97.
21. "THE STERN GERLACK EXPERIMENT: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Fall 1997.

22. "THE DAVISSON GERMER EXPERIMENT: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Fall 1997.

1996

23. "THE FRANK-HERTZ EXPERIMENT: Pre- and Post-Examinations and Activity Guide", for teaching PHYS 3325, Fall 1996.

24. "Universo - Almanaque Celestial 1996", published by McDonald Observatory of the University of Texas, 1/1/96. Contributed as technical editor.

25. "Universo - Almanaque Celestial 1997", published by McDonald Observatory of the University of Texas, 1/1/96. Contributed as technical editor.

1994

26. "Universo" Compact Disks Audio material for general audiences. Pressed monthly describing the skies for many high schools and radio stations in the United States. Pressed by UT Austin/McDonald Observatory since the Fall of 1994. Contributed as technical editor. Since the Fall of 1994 to date.

27. "Experiments For General Physics 4104", J. A. López, Published by Burgess International Group, 1994.

1993

28. "Experiments For General Physics 4103", J. A. López, Published by Burgess International Group, 1993.