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| **LECTURE TOPICS** | 1. **Petroleum Refineries Wastes**

Production processes and sources of wastes. Major pollutants of concern and quantities. Legislature governing these types of wastes. Technologies of treatment and management/disposal. Case studies.1. **Textile Industry Production**

Processes and sources of wastes. Major pollutants of concern and quantities. Legislature governing these types of wastes. Technologies of treatment and management/disposal. Case studies.1. **Electric Car Batteries Recycling**

Design of electric car Li batteries. Problems and impacts of Li wastes on human health and the environment. Refurbishing and remanufacturing of end-of-life batteries for the purpose of recycling/reuse and avoiding waste contamination. Costs of such efforts/methods. |
| **BIOGRAPHICAL NOTE** | Professor **Constantine Yapijakis** is Director of the Environmental Research Laboratory at the Cooper Union School of Engineering located in Manhattan, New York. He is teaching interdisciplinary Environmental engineering courses for the Engineering Departments and some for Architects as well.Dr. Yapijakis is a graduate of the School of Civil Engineering of NTUA, and received a M.S. from New York University and a Ph.D. from the Polytechnic University of New York (now part of NYU) in Environmental Engineering. He has over 45 years’ experience of teaching in New York City universities and working as an engineer and a consultant in USA and international projects.He has worked on many major projects for New York City, such as solid waste management, drinking water treatment, wastewater treatment plant upgrades, industrial and hazardous waste treatment and management, etc. He has co-authored and co-edited 11 books. |
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