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Book reviews

D.E. Della-Giustina, Motor Fleet Safety and Security Management, CRC Press, Boca Raton, FL, 2004, 237 pp., US$ 99.95, ISBN 1-56670-650-5.

The title of this book would tend to cause the reader to question its being reviewed in the Journal of Hazardous Materials. That thought would be true except for one 15-page chapter that deals with the "Shipping and Storage of Hazardous Materials." The author notes that: "The world has changed since the terrorist attacks of September 11, 2001, and the requirements for transporting hazardous materials have as well. There is a greater focus on hazardous materials transportation, and penalties for noncompliance can be severe."

The material in this chapter covers, albeit it briefly, the following topics:

- rules and regulations promulgated by the US Department of Transportation and found in Title 49 of the US Code of Federal Regulations; specified are the rules requiring immediate notification and reporting of spills;
- hazard class overview (explosives, gases, flammable liquids, etc.);
- hazmat training requirements;
- shipping papers;
- emergency response guidelines;
- contacting first responders;
- placards;
- security;
- hazard communication;
- chemical inventory including labeling and storage;
- personal protective equipment;
- spill plan.

Although each topic is only covered briefly, this material will be useful to the transportation industry. It is well written and easy to understand.

Finally, I note that each chapter ends with a list of study questions pertinent to the material just discussed.

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Charles E. Baukal Jr. (Ed.), Industrial Burners Handbook, CRC Press, Boca Raton, FL, 2004, 808 pp., US$ 269.95, ISBN 0-8493-1386-4.

According to Baukal, "The field of combustion is very broad and touches, directly or indirectly, nearly all aspects of our lives." Nowhere is that statement more true than in my home town of Toledo, OH, that is known as the glass capital of the world but also has refineries and automobile manufacturing plants as well as other combustion-supported industries.

Baukal is a prolific author/editor with this being the sixth CRC-published book dealing with combustion. This volume has almost 30 contributors, many of whom work for John Zink Company, a supplier of industrial combustion equipment, who generated 21 chapters. Of that total, the editor himself wrote or co-authored approximately one half. As I read this material, I noted that, when appropriate, he included example calculations in the chapters to which he contributed. I found this very useful.

In the preface, one finds a succinct review of this text:

> "The book is organized in three sections. Section I deals with the basics of combustion in industrial applications. It includes five general chapters on heat transfer, fluid flow, combustion, and computer modeling . . .. Section II concerns burner fundamentals. It includes five chapters on the topics of burner heat transfer, burner noise, burner controls, burner testing, and burner physical modeling. Section III deals with 11 specific burner designs, including chapters on high-velocity burners, regenerative burners, thermal radiation burners, radiant tube burners, radiant wall burners, natural-draft burners, boiler burners for single-burner applications, boiler burners for multi-burner applications, duct burners, air-oxy/fuel burners, and oxy/fuel burners."

Although I have had contact with industrial burners (two summers in a glass plant and consultant for a drum reclama-