

Acknowledgements

We would like to acknowledge the many people who have helped us in so many different ways with this ongoing project.

We begin with the 2004 Wharton MBA class that weathered through our initial version of the text. It is not practical for us to name every student that shared comments with us, but we do wish to name the students who took the time to participate in our focus groups: Gregory Ames, Maria Herrada-Flores, Justin Knowles, Karissa Kruse, Sandeep Naik, Jeremy Stackowitz, Charlotte Walsh, and Thomas (TJ) Zerr. The 2005 MBA class enjoyed a much more polished manuscript, but nevertheless contributed numerous suggestions and identified remaining typos and errors (much to our chagrin). In addition to Wharton students, we received helpful feedback from students at Texas A&M, the University of Toronto, and INSEAD.

Along with our students, we would like to thank our co-teachers in the core: Krishnan Anand, Morris Cohen, Marshall Fisher, Chris Lee, Serguei Netessine, Kathy Pearson, Stephan Spinler, Anita Tucker, Karl Ulrich, Senthil Veeraraghavan, and Yu-Sheng Zheng. In addition to useful pedagogical advice and quality testing, they shared many of their own practice problems and questions.

This book is not the first book in Operations Management, nor will it be the last. We hope we have incorporated the best practices of existing books while introducing our own innovations. The book by Anupindi et al. as well as the article by Harrison and Loch were very helpful to us, as they developed the process view of operations underlying Chapters 2 to 7. The book by Chase and Aquilano was especially useful for Chapter 9. We apply definitions and terminology from those sources whenever possible without sacrificing our guiding principles.

We also have received some indirect and direct assistance from faculty at other universities. Garrett van Ryzin's (Columbia) and Xavier de Groot's (INSEAD) inventory notes were influential in the writing of Chapters 2 and 13, and the revenue management note by Serguei Netessine (Wharton) and Rob Shumsky (Dartmouth) was the starting point for Chapter 15. The process analysis, queuing, and inventory notes and articles written by Martin Lariviere (Northwestern), Michael Harrison (Stanford), and Christoph Loch (INSEAD) were also influential in several of our chapters. Martin, being a particularly clever question designer, was kind enough to share many of his questions with us.

Matthew Drake (Duquesne University) provided us with invaluable feedback during his meticulous accuracy check of both the text and the solutions, and we thank him for his contribution.

Several brave souls actually read the entire manuscript and responded with detailed comments. These reviewers included Stephen Chick (INSEAD), Karen Donohue (University of Minnesota), Mark Ferguson (Georgia Tech), Larry Fredendall (Clemson University), Phillip Fry (Boise State University), Srinagesh Gavirneni (Cornell University), Stephen Gilbert (University of Texas, Austin), Matthew Keblis (Texas A&M), Joe Milner (University of Toronto), Kenneth Paetsch (Cleveland State University), Erica Plambeck (Stanford University), Eric Svaan (University of Michigan), Noel Watson (Harvard University), Jayashankar Swaminathan (UNC Chapel Hill), and Rachel Zhang (Hong Kong University of Science and Technology).

Our Ph.D. student "volunteers," Karan Girotra, Diwas KC, Marcelo Olivares, and Fuqiang Zhang, as well as Ruchika Lal and Bernd Terwiesch, took on the tedious job of quality testing. Greg Neubecker and Bethany Schwartz helped to collect and analyze

data and could frequently solve practice problems faster than we could. The text is much cleaner due to their efforts.

The many cases and practical examples that illustrate the core concepts of this book reflect our extensive collaboration with several companies, including the University of Pennsylvania Hospital System in the Philadelphia region, the Circored plant in Trinidad, the Xootr factory in New Hampshire, the An-ser call center in Wisconsin, the operations group at O'Neill in California, and the supply chain group at Medtronic in Minnesota. We have benefited from countless visits and meetings with their management teams. We thank the people of these organizations, whose role it is to match supply and demand in the "real world," for sharing their knowledge, listening to our ideas, and challenging our models. Special thanks go to Jeff Salomon and his team (Interventional Radiology), Karl Ulrich (Xootr), Allan Fromm (An-ser), Cherry Chu and John Pope (O'Neill), and Frederic Marie and John Grossman (Medtronic). Allan Fromm deserves extra credit, as he was not only willing to share with us his extensive knowledge of service operations that he gathered as a CEO of a call center company but also proofread the entire manuscript and tackled most of the practice problems. Special thanks also to the McKinsey operations practice, in particular John Drew and Stephen Doig, for sharing their practical experience on Lean Operations and the Toyota Production System.

We especially thank our friend, colleague, and cycling partner Karl Ulrich, who has been involved in various aspects of the book, starting from its initial idea to the last details of the design process, including the cover design.

We thank Scott Isenberg, Cynthia Douglas, Colin Kelley, and Kathryn Mikulic at McGraw-Hill for providing guidance, motivation, and insights.

Finally, we thank our family members, some of whom were surely unwilling reviewers who nevertheless performed their family obligation with a cheerful smile.

Gérard Cachon

Christian Terwiesch