

COL Barry R. Cobb, Ph.D
Professor

Contact Information

234 Scott Shipp Hall
540-464-7891
cobbbr@vmi.edu

Education

Ph.D. Business, University of Kansas, 2005
M.B.A. Business Administration, University of Northern Iowa, 1995
B.S. Finance, Friends University, 1993

Research Interests

Supply Chain Management, Operations Research, Financial Modeling

Courses Taught

BU 339 – Operations Management
EC 423 – Economics and Business Analytics
EC 430 – Financial Modeling

Recent Publications

Cobb, B.R. 2024. Attribute statistical process control under nonconstant process deterioration. *Quality & Reliability Engineering International*, 40(5) 2638–2657.

Cobb, B.R. 2024. Attribute statistical process control under nonconstant process deterioration. *Computers & Operations Research*, 161, Article 106423.

Firouz, M., Li, L., Shao, F., and Cobb, B.R. 2023. On the equity-efficiency trade-off in food-bank network operations. *Journal of the Operational Research Society*, 74(12) 2493–2514

Cobb, B.R., T. Murray, J.S. Smith. 2022. Adjustable consumption model for retirees to balance spending and risk. *Journal of Economics and Finance*. 46(2) 420–451.

Cobb, B.R., L. Li 2021. Forward cycle time distributions for returnable transport items. *Journal of Remanufacturing*, 12(1) 125–151.

Cobb, B.R. 2021. Statistical process control for the number of defectives with limited memory. *Decision Analysis*, 18(3) 203–217.

Cobb, B.R., J.S. Smith. 2020. Selecting a Social Security age to balance consumption and risk. *Financial Services Review*. 28(3) 30–50.

Cobb, B.R. 2016. Estimating cycle time and return rate distributions for returnable transport items. *International Journal of Production Research*. 54(14) 4356–4367.

Cobb, B.R. 2016. Inventory control for returnable transport items in a closed-loop supply chain. *Transportation Research Part E: Logistics and Transportation Review*. 86 53–68.

Works in Progress

“LIMID Quality Control Models for Increasing Failure Rate Processes.”

“Adjustable Retirement Consumption Models,” with J.S. Smith.