**Curriculum Vitae**

**Sudhakar D. Deshmukh**

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## Personal

Born: February 25, 1944, Nashik, India

Family: Married, Two daughters, Three grandsons

Citizenship: United States

### Education

Ph.D. Business Administration, University of California, Berkeley, 1971

 Fields: Management Science, Economic Theory, Mathematics

M.S. Industrial Engineering, Purdue University, 1966

 Fields: Operations Research, Production Management, Statistics

B.E. Mechanical Engineering, Pune University, India, 1964

### Employment

2001 – Charles E. Morrison Professor of Decision Sciences

1980 – 2001 Professor of Decision Sciences

1971 – 1980 Assistant and Associate Professor of Decision Sciences

2006 – 2011 Co-director, MMM Program in Design and Operations

All at Kellogg School of Management, Northwestern University

### Membership

The Institute For Operations Research and Management Science (INFORMS)

### Teaching Interests

Analytical Decision Modeling, Operations Management,

Applied Probability and Stochastic Processes, Optimal Statistical Decisions

### Research Interests

Stochastic optimization models of decisions involving time and uncertainty, with applications in management science and economics.

### Research Publications

"Computational Stopping," *OMEGA: The International Journal of Management Science,* Vol.1, No. 5 (October 1973), pp. 603-611.

"Optimal Delays in Decision and Control," (with S. D. Chikte*), IEEE Transactions on Automatic Control*, Vol. AC-19, No. 4 (August 1974), pp. 412-416.

"Computational Delays," *Management Science*, Vol. 21, No. 3 (November 1974), pp. 330-340.

"Dynamic Pricing with Stochastic Entry," (with S. D. Chikte), *Review of Economic Studies*, Vol. 43, No.1 (February 1976), pp. 91-97.

"A Stochastic Model of Persuasive Communication," (with V. Balachandran), *Management Science*, Vol. 22, No. 8 (April 1976), pp. 829-840.

"Storage Decisions in Information Systems," (with V. Balachandran), *AIEE Transactions*, Vol. 8, No. 3 (September 1976), pp. 358-364.

"Dynamic Investment Strategies for a Risky R and D Project," (with S. D. Chikte), *Journal of Applied Probability*, Vol.14, No. 1 (March 1977), pp. 144-152.

"Stochastic Evolution and Control of an Economic Activity," (with S. D. Chikte), *Journal of Economic Theory*, Vol. 15, No. 1 (June 1977), pp. 112-122.

"A Controlled Birth and Death Process Model of Optimal Product Pricing Under Stochastically Changing Demand," (with W. Winston), *Journal of Applied Probability*, Vol. 14, No. 2 (June 1977), pp. 328-339.

"Capacity Design and Service Quality Control in a Queuing System," (with S. Jain), *Operations Research*, Vol. 25, No. 4 (July-August 1977), pp. 651-661.

"A Zero-Sum Stochastic Game Model of Duopoly," (with W. Winston), I*nternational Journal of Game Theory*, Vol. 7, No. 1 (1978), pp. 19-30.

"Stochastic Control of Competition Through Prices," (with W. Winston), *Operations Research*, Vol. 27, No. 3 (May-June 1979), pp. 583.594.

"Optimal Consumption and Exploration of Nonrenewable Resources Under Uncertainty," (with S. R. Pliska), *Econometrica*, Vol. 48, No. 1 (January 1980), pp. 177-200.

"A Unified Approach for Modeling and Analyzing New Product R&D Decisions," (with S. D. Chikte), *Management of Research and Innovation*, TIMS Studies in the Management Sciences, Vol. 15 (1980), pp. 163-182.

"Preventive Maintenance and Replacement Under Additive Damage," (with S. D. Chikte), *Naval Research Logistics Quarterly*, Vol. 28, No. 1 (March 1981), pp. 33-46.

"Bank Forward Lending in Alternative Funding Environments," (with S. I. Greenbaum and G. Kanatas), *Journal of Finance,* Vol. 37, No. 4 (September 1982), pp. 925-940

"Capital Accumulation and Deposit Pricing in Mutual Financial Institutions," (with S. I. Greenbaum and A. Thakor), *Journal of Financial and Quantitative Analysis*, Vol. 17, No. 4 (December 1982), pp. 705-725.

"Interest Rate Uncertainty and the Financial Intermediary's Choice of Exposure," (with S. I. Greenbaum and G. Kanatas), *Journal of Finance*, Vol. 38, No. 1 (March 1983), pp. 141-147.

"Lending Policies of Financial Intermediaries Facing Credit and Funding Risks," (with S. I. Greenbaum and G. Kanatas), *Journal of Finance*, Vol. 38, No. 3 (June 1983), pp. 873-886.

"Optimal Consumption of a Nonrenewable Resource with Stochastic Discoveries and a Random Environment," (with S. R. Pliska), *Review of Economic Studies*, Vol. 50 (October 1983), pp. 543-554.

"A Martingale Characterization of the Price of a Nonrenewable Resource with Decisions Involving Uncertainty," (with S. R. Pliska), *Journal of Economic Theory,* Vol. 35 (April 1985), pp. 322-342.

"The Role of External Search in Bilateral Bargaining," (with S. D. Chikte), *Operations Research*, Vol. 35, No. 2 (March-April 1987), pp. 198-205.

"To be the First or To be the Best: Innovation Competition", Working Paper (with S. D. Chikte).

## Text Books

*Managing Business Process Flows: Principles of Operations Management* (with R. Anupindi, S. Chopra, J. Van Mieghem, and E. Zemel), third edition, Prentice Hall 2012.

*Analytical Business Concepts and Decisions in Excel* (in progress)

**Outside Activities**

Sasin Graduate Institute of Management, Chulalongkorn University, Bangkok, Thailand

Teaching in the MBA and EMBA programs since 1983

Indian School of Business, Hyderabad and Mohali, India

Teaching in the MBA and EMBA programs and serving in advisory capacity as area leader for Operations