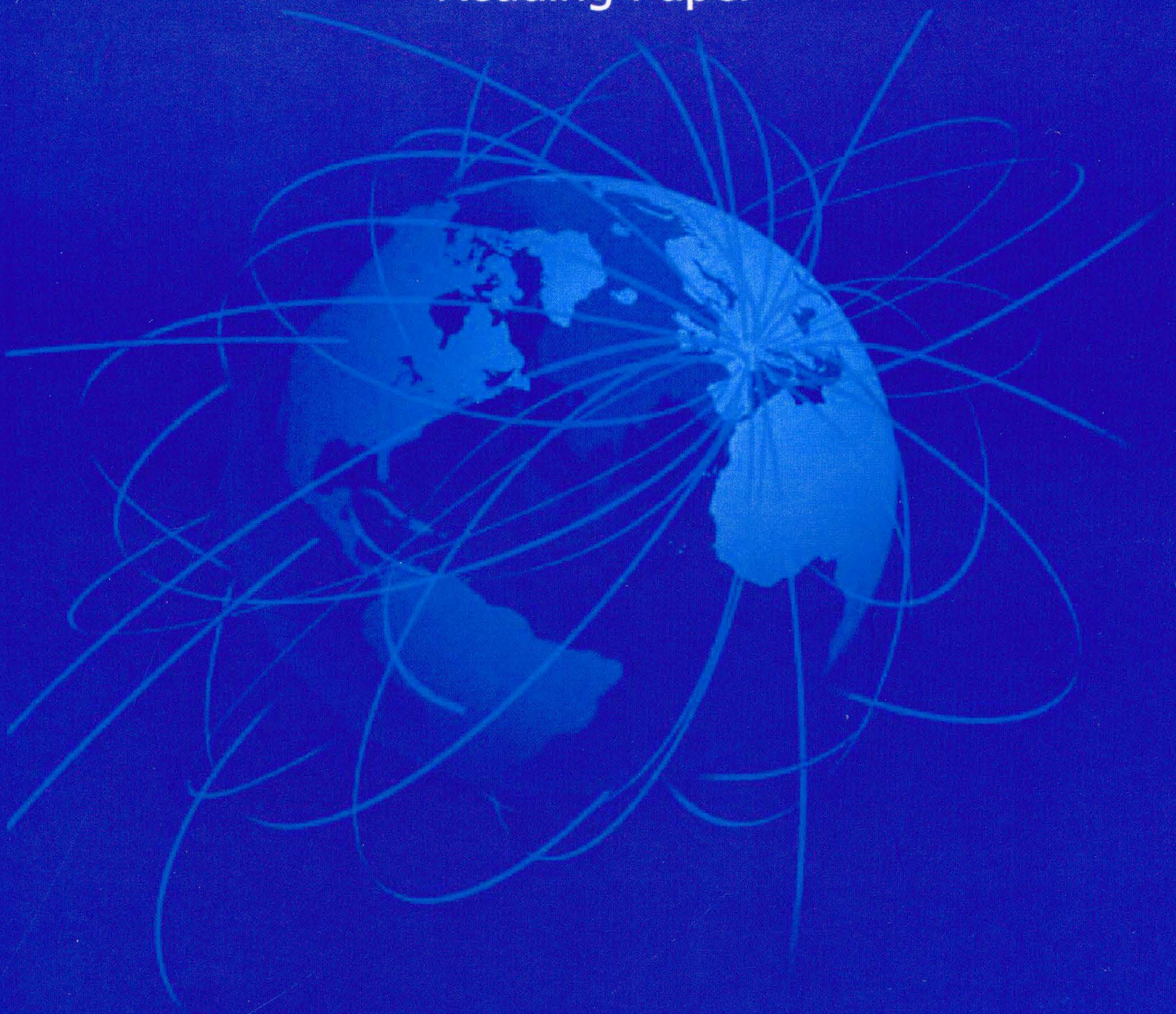




EUROPEAN BUSINESS SCHOOL
International University Schloß Reichartshausen

Supply Techniques

Reading Paper



Evi Hartmann • Roger Moser

SMITM

SUPPLY MANAGEMENT INSTITUTE

Supply Techniques

Reading Paper from the
Supply Management Institute's series
Purchasing and Supply Management

Supply Management Institute SMI™
Ed. Univ.-Prof. Dr. Christopher Jahns

A collaborative publication from



Verlag Wissenschaft & Praxis

The German Library – CIP-Affiliation

The German Library lists this publication in the German national bibliography;
detailed bibliographic data is available on the Internet at <http://dnb.ddb.de>.

© SMG™ Publishing AG, 2005

CH-9000 St. Gallen, Teufener Strasse 25

Tel.: +41 (0)71 226 10 60, Fax: +41 (0)71 226 10 69

homepage: www.smg-ag.com, e-mail: contact@smg-ag.com

All rights reserved.

This publication as a whole and its constituent parts are protected by copyright laws. Any copying, reproduction or use without written permission from the publisher violates copyright laws and is liable to prosecution. This particularly applies to copying, translating or microfilming as well as storing and processing the contents in electronic systems.



SMG™ Publishing AG
ISBN 3-907874-36-6



Verlag Wissenschaft & Praxis
ISBN 3-89673-336-2

Printed in Germany

PREFACE

Professional supply managers do not only have to know how to negotiate or how to manage suppliers but are also increasingly challenged to work in cross-functional teams in order to create competitive advantages for their companies. As a result, supply managers repeatedly need to apply new, non-classical supply techniques. A small selection of these supply techniques are presented in this reading paper that should provide the reader with a general overview and application examples for each technique.

Furthermore, this reading paper would not have been possible with all the conceptual details and the broad range of examples without the support of the following students: Sinem Atakan, Ankid Kedia, Anne-Kathrin Greiner, Arora Shaurya, Marco Linz, Valentin Recker, Valérie Heymans, Ingmar Schaaf, Jens Burchardt, Jörg Gerbig and Jan Philipp Lüdtkke.

We thank them for their contributions and wish the readers an interesting time.

The authors

TABLE OF CONTENT

FAILURE MODE AND EFFECTS ANALYSIS.....	3
LIFE CYCLE COSTING	16
MATERIAL GROUP CLASSIFICATION.....	26
QUALITY FUNCTION DEPLOYMENT	38
RAPID PROTOTYPING	47
REVERSE ENGINEERING	62
ABC/XYZ ANALYSIS	74
SIMULTANEOUS ENGINEERING	83
TOTAL COST OF OWNERSHIP	96
TOTAL QUALITY MANAGEMENT	106
VALUE ANALYSIS / VALUE ENGINEERING	120
REFERENCES	130