

# Applied Regression Modeling: A Business Approach

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## Applied Regression and Modeling

A Computer Integrated Approach

Amar Sahay

Applied Regression and Modeling: A Computer Integrated Approach creates a balance between the theory, practical applications, and computer implementation behind Regression—one of the most widely used techniques in analyzing and solving real world problems. The book begins with a thorough explanation and discussion of Regression Analysis with computer applications. This is followed by Multiple Regression—a widely used tool to predict a response variable using two or more predictors. The book emphasizes the use of computers to relieve the analyst of tedious, repetitive calculations and allow the analyst to focus on creating and interpreting successful models. In addition, the book presents complete computer analysis including the interpretation of multiple regression models along with the model adequacy tests and residual analysis using widely used computer software.

Finally, the book extends the concepts to Modeling. Among the models discussed are non-linear, higher order, interaction, and models with qualitative variables, all subset regression, and step-wise regression with real world applications. Analysis and interpretation of computer results are also presented.

A website link is provided for the readers to download the additional material including statistical concepts for regression, computer instructions to run the models using Excel and MINITAB software, and all of the data files.

Dr. Amar Sahay is engaged in teaching, research, consulting, and training. He has a BS in production engineering from Birla Institute of Technology, India, MS in industrial engineering and a PhD in mechanical engineering—both from the University of Utah, USA. He is a professor and has taught/teaching at several Utah institutions including the University of Utah, SLCC, and others. Dr. Sahay is a certified Six Sigma Master Black Belt and holds expert level certification in lean manufacturing/lean management. He has contributed a number of research papers in the field of engineering and quality. He is the author of Six Sigma Quality: Concepts and Cases, Statistics & Data Analysis Concepts, and Managing and Improving Quality. Dr. Sahay is the founder of QMS Global LLC, a company engaged in the areas of lean six sigma, data visualization, analytics, manufacturing, and services. He is a senior member of the Institute of Industrial & Systems Engineers, and a senior member of American Society for Quality (ASQ).

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