

# APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE

## 5TH EDITION

APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE 5TH EDITION UNLOCK THE POWER OF DATA WITH APPLIED STATISTICS AND SAS PROGRAMMING 5TH EDITION SO YOU'VE GOT YOUR HANDS ON THE LEGENDARY APPLIED STATISTICS AND SAS PROGRAMMING 5TH EDITION CONGRATULATIONS THIS BOOK IS A POWERHOUSE FOR ANYONE WANTING TO HARNESS THE CAPABILITIES OF SAS TO ANALYZE DATA EFFECTIVELY BUT LET'S BE HONEST WADING THROUGH A TEXTBOOK CAN FEEL LIKE NAVIGATING A DENSE FOREST THIS BLOG POST ACTS AS YOUR FRIENDLY GUIDE BREAKING DOWN KEY CONCEPTS PROVIDING PRACTICAL EXAMPLES AND ANSWERING YOUR BURNING QUESTIONS WE'LL EXPLORE HOW THIS EDITION CAN HELP YOU UNLOCK THE TRUE POWER OF APPLIED STATISTICS WHAT MAKES THIS EDITION SPECIAL THE 5TH EDITION BUILDS UPON ITS PREDECESSORS OFFERING A MORE STREAMLINED AND ACCESSIBLE APPROACH TO LEARNING SAS PROGRAMMING ALONGSIDE STATISTICAL CONCEPTS IT BRIDGES THE GAP BETWEEN STATISTICAL THEORY AND PRACTICAL APPLICATION MAKING IT IDEAL FOR BOTH STUDENTS AND PROFESSIONALS THIS IS ACHIEVED THROUGH CLEAR EXPLANATIONS OF STATISTICAL CONCEPTS THE BOOK DOESN'T ASSUME PRIOR EXTENSIVE KNOWLEDGE OF STATISTICS GRADUALLY BUILDING UPON FOUNDATIONAL CONCEPTS HANDSON SAS CODE EXAMPLES EACH STATISTICAL METHOD IS COMPLEMENTED WITH DETAILED SAS CODE SNIPPETS DEMONSTRATING EXACTLY HOW TO IMPLEMENT IT REALWORLD DATASETS AND CASE STUDIES YOU'LL WORK WITH RELATABLE DATASETS MAKING THE LEARNING PROCESS ENGAGING AND RELEVANT TO YOUR POTENTIAL CAREER PATH UPDATED SAS SYNTAX AND FEATURES THE BOOK INCORPORATES THE LATEST SAS FEATURES ENSURING YOU'RE LEARNING CURRENT BEST PRACTICES LET'S DIVE INTO SOME PRACTICAL EXAMPLES IMAGINE YOU'RE A MARKET RESEARCHER ANALYZING CUSTOMER PURCHASE DATA LET'S SEE HOW THE BOOK HELPS YOU ANSWER KEY BUSINESS QUESTIONS USING SAS

**EXAMPLE 1 DESCRIPTIVE STATISTICS DATA EXPLORATION** LET'S SAY YOU HAVE A DATASET CONTAINING CUSTOMER AGE INCOME AND SPENDING HABITS THE BOOK GUIDES YOU THROUGH USING SAS PROCEDURES LIKE PROC MEANS AND PROC UNIVARIATE

**2 TO CALCULATE DESCRIPTIVE STATISTICS** LIKE MEAN MEDIAN STANDARD DEVIATION AND PERCENTILES THIS ALLOWS YOU TO UNDERSTAND THE CENTRAL TENDENCY AND VARIABILITY WITHIN YOUR CUSTOMER BASE

**SAS CODE SNIPPET** PROC MEANS SAS PROC MEANS DATACUSTOMERDATA MEAN STD MEDIAN MIN MAX VAR AGE INCOME SPENDING RUN

**VISUAL** IMAGINE A TABLE DISPLAYING THE MEAN STANDARD DEVIATION MEDIAN MINIMUM AND MAXIMUM VALUES FOR AGE INCOME AND SPENDING THIS VISUALLY SUMMARIZES THE DATASETS CENTRAL TENDENCIES AND VARIABILITY

**EXAMPLE 2 HYPOTHESIS TESTING** YOU WANT TO TEST IF THERE'S A SIGNIFICANT DIFFERENCE IN SPENDING BETWEEN MALE AND FEMALE CUSTOMERS THE BOOK INTRODUCES YOU TO TTESTS AND ANOVA USING PROC TTEST AND PROC ANOVA

**SAS CODE SNIPPET** PROC TTEST SAS PROC TTEST DATACUSTOMERDATA CLASS GENDER VAR SPENDING RUN

**VISUAL** IMAGINE A TABLE PRESENTING THE TSTATISTIC PVALUE AND CONFIDENCE INTERVALS THIS CLARIFIES WHETHER THE DIFFERENCE IN SPENDING BETWEEN GENDERS IS STATISTICALLY SIGNIFICANT

**EXAMPLE 3 REGRESSION ANALYSIS** YOU WANT TO PREDICT CUSTOMER SPENDING BASED ON THEIR AGE AND INCOME THE BOOK TEACHES YOU LINEAR REGRESSION USING PROC REG

**SAS CODE SNIPPET** PROC REG SAS PROC REG DATACUSTOMERDATA MODEL SPENDING AGE INCOME

**3 RUN** **VISUAL** IMAGINE A SCATTER PLOT SHOWING THE RELATIONSHIP BETWEEN SPENDING AND AGEINCOME WITH THE REGRESSION LINE OVERLAID THIS VISUALLY REPRESENTS THE PREDICTIVE MODEL

**A HOWTO GUIDE GETTING STARTED WITH SAS**

- 1 INSTALLATION** ENSURE YOU HAVE SAS INSTALLED ON YOUR COMPUTER OR ACCESS TO A SAS SERVER THE BOOK MAY OFFER GUIDANCE ON THIS
- 2 DATA IMPORT** LEARN HOW TO IMPORT YOUR DATA INTO SAS USING PROC IMPORT VARIOUS FORMATS LIKE CSV EXCEL
- 3 DATA CLEANING** THE BOOK EMPHASIZES THE IMPORTANCE OF DATA CLEANING USE SAS PROCEDURES TO HANDLE MISSING VALUES OUTLIERS AND DATA TRANSFORMATIONS
- 4 STATISTICAL ANALYSIS** SELECT THE APPROPRIATE SAS PROCEDURE BASED ON YOUR RESEARCH QUESTION EG PROC MEANS PROC FREQ PROC CORR PROC GLM ETC
- 5 OUTPUT INTERPRETATION** UNDERSTAND HOW TO INTERPRET THE SAS OUTPUT TO DRAW MEANINGFUL CONCLUSIONS

**KEY POINTS TO REMEMBER** APPLIED STATISTICS AND SAS PROGRAMMING 5TH EDITION BRIDGES THE GAP BETWEEN STATISTICAL THEORY AND SAS PROGRAMMING THE BOOK PROVIDES A PRACTICAL HANDSON APPROACH TO LEARNING USING REALWORLD EXAMPLES AND DATASETS MASTERING SAS IS CRUCIAL FOR ANALYZING DATA EFFICIENTLY AND EFFECTIVELY THE BOOK COVERS A WIDE RANGE OF STATISTICAL METHODS AND SAS PROCEDURES

**FREQUENTLY ASKED QUESTIONS FAQs**

- 1 DO I NEED PRIOR PROGRAMMING EXPERIENCE** NO THE BOOK STARTS WITH THE BASICS OF SAS PROGRAMMING MAKING IT ACCESSIBLE EVEN TO BEGINNERS
- 2 WHAT LEVEL OF STATISTICAL KNOWLEDGE IS REQUIRED** A BASIC UNDERSTANDING OF STATISTICS IS HELPFUL BUT THE BOOK COVERS FUNDAMENTAL CONCEPTS CLEARLY
- 3 IS THERE SUPPORT FOR THE BOOK** WHILE THE BOOK ITSELF DOESN'T INCLUDE DIRECT SUPPORT THERE ARE NUMEROUS ONLINE RESOURCES AND SAS

COMMUNITIES WHERE YOU CAN FIND ASSISTANCE 4 CAN I USE OTHER STATISTICAL SOFTWARE INSTEAD OF SAS WHILE SAS IS THE FOCUS THE STATISTICAL CONCEPTS LEARNED ARE APPLICABLE TO OTHER SOFTWARE PACKAGES LIKE R OR SPSS 5 WHAT KIND OF DATASETS ARE USED IN THE BOOK THE BOOK USES A VARIETY OF DATASETS COVERING VARIOUS FIELDS MAKING THE LEARNING EXPERIENCE RELEVANT AND APPLICABLE ACROSS DIFFERENT 4 DOMAINS THIS BLOG POST SERVES AS A STARTING POINT FOR YOUR JOURNEY WITH APPLIED STATISTICS AND SAS PROGRAMMING 5TH EDITION REMEMBER CONSISTENT PRACTICE AND ENGAGEMENT WITH THE EXAMPLES ARE KEY TO MASTERING THIS POWERFUL TOOL HAPPY DATA ANALYZING

APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE SAS PROGRAMMING FOR ENTERPRISE GUIDE USERS, SECOND EDITION GETTING STARTED WITH SAS PROGRAMMING SAS CERTIFICATION PREP GUIDE SAS CERTIFIED PROFESSIONAL PREP GUIDE PRACTICAL AND EFFICIENT SAS PROGRAMMING HOW TO BECOME A TOP SAS PROGRAMMER MASTERING THE SAS SYSTEM SAS PROGRAMMING AND DATA VISUALIZATION TECHNIQUES SAS PROGRAMMING BY EXAMPLE SAS PROGRAMMING SAS PROGRAMMING FOR ENTERPRISE GUIDE USERS, SECOND EDITION (HARDCOVER EDITION) PROFESSIONAL SAS PROGRAMMING SECRETS SAS® 9.4 CERT PREP: PART 01 SAS PROGRAMMING ESSENTIALS SAS MACRO PROGRAMMING MADE EASY SAS CERTIFIED SPECIALIST PREP GUIDE SAS PROGRAMMING IN THE PHARMACEUTICAL INDUSTRY, SECOND EDITION CODY'S DATA CLEANING TECHNIQUES USING SAS SOFTWARE SAS CERTIFIED PROFESSIONAL PREP GUIDE SAS PROGRAMMING 1 RONALD P. CODY NEIL CONSTABLE RON CODY SAS INSTITUTE SAS INSTITUTE MARTHA MESSINEO MICHAEL A. RAITHEL JAY JAFFE PHILIP R. HOLLAND RONALD P. CODY NEIL H. SPENCER NEIL CONSTABLE RICK ASTER MICHELE M. BURLEW SAS INSTITUTE JACK SHOSTAK RONALD P. CODY SAS INSTITUTE STATISTICAL ANALYSIS SOFTWARE

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NEW AND UPDATED FOR SAS ENTERPRISE GUIDE 4 2 IN THIS PRAGMATIC EXAMPLE DRIVEN BOOK AUTHOR NEIL CONSTABLE DEMONSTRATES HOW YOU CAN USE SAS CODE TO ENHANCE THE CAPABILITIES OF SAS ENTERPRISE GUIDE DESIGNED TO HELP YOU GAIN EXTRA VALUE FROM THE PRODUCTS YOU ALREADY HAVE SAS PROGRAMMING FOR ENTERPRISE GUIDE USERS CONTAINS TIPS AND TECHNIQUES THAT SHOW YOU A VARIETY OF FEATURES THAT CANNOT BE ACCESSED DIRECTLY THROUGH THE TASK INTERFACES IN ALL CASES TECHNIQUES ARE SHOWN WITH EXAMPLES THAT YOU CAN TRY AND TEST PLUS ADDITIONAL EXERCISES ARE INCLUDED TO GIVE YOU MORE PRACTICE THE END RESULT IS MORE EFFICIENT AND RESILIENT USE OF SAS ENTERPRISE GUIDE IN A WIDER VARIETY OF BUSINESS AREAS INCLUDED IS A DISCUSSION OF THE FOLLOWING SUBJECT AREAS THE OUTPUT DELIVERY SYSTEM ADVANCED FORMATTING MACRO VARIABLES AND MACROS ADVANCED REPORTING USING PROC REPORT HIGHLIGHTING IN REPORTS HYPERLINKING BETWEEN REPORTS AND GRAPHS DATA MANIPULATION USING SQL DATA MANIPULATION USING THE DATA STEP EXTENDED GRAPHICS BY ADDING SMALL AMOUNTS OF CODE IN KEY AREAS SAS ENTERPRISE GUIDE USERS CAN GET MORE OUT OF THE PRODUCT THAN THE TASKS REVEAL USERS SHOULD BE FAMILIAR WITH THE SAS ENTERPRISE GUIDE USER INTERFACE AND TASKS NO PROGRAMMING EXPERIENCE IS NECESSARY THIS BOOK IS PART OF THE SAS PRESS PROGRAM

GET UP AND RUNNING WITH SAS USING RON CODY S EASY TO FOLLOW STEP BY STEP GUIDE AIMED AT BEGINNERS GETTING STARTED WITH SAS PROGRAMMING USING SAS STUDIO IN THE CLOUD USES SHORT EXAMPLES TO TEACH SAS PROGRAMMING FROM THE BASICS TO MORE ADVANCED TOPICS IN THE POINT AND CLICK INTERACTIVE ENVIRONMENT OF SAS STUDIO TO BEGIN YOU WILL LEARN HOW TO REGISTER FOR SAS ONDEMAND FOR ACADEMICS AN ONLINE DELIVERY PLATFORM FOR TEACHING AND LEARNING STATISTICAL ANALYSIS THAT PROVIDES FREE ACCESS TO SAS SOFTWARE VIA THE CLOUD THE FIRST PART OF THE BOOK SHOWS YOU HOW TO USE SAS STUDIO BUILT IN TASKS TO PRODUCE A REPORT SUMMARIZE DATA AND CREATE CHARTS AND GRAPHS IT ALSO DESCRIBES HOW YOU CAN PERFORM BASIC STATISTICAL TESTS USING THE INTERACTIVE POINT AND CLICK ENVIRONMENT THE SECOND PART OF THE BOOK USES EASY TO FOLLOW EXAMPLES TO SHOW YOU HOW TO WRITE YOUR OWN SAS PROGRAMS AND HOW TO USE SAS PROCEDURES TO PERFORM A VARIETY OF TASKS THIS PART OF THE BOOK ALSO EXPLAINS HOW TO READ DATA FROM A

VARIETY OF SOURCES TEXT FILES EXCEL WORKBOOKS AND CSV FILES IN ORDER TO GET FAMILIAR WITH THE SAS STUDIO ENVIRONMENT THIS BOOK ALSO SHOWS YOU HOW TO ACCESS DOZENS OF INTERESTING DATA SETS THAT ARE INCLUDED WITH THE SAS ONDEMAND FOR ACADEMICS PLATFORM

BUSINESSES RELY ON CAREER PROFESSIONALS WITH STRONG SAS KNOWLEDGE AND SKILLS SET YOURSELF APART FROM THE COMPETITION BY EARNING THE ONLY GLOBALLY RECOGNIZED CREDENTIAL ENDORSED BY SAS THE SAS CERTIFICATION PREP GUIDE ADVANCED PROGRAMMING FOR SAS<sup>9</sup> FOURTH EDITION PREPARES YOU TO TAKE THE ADVANCED PROGRAMMING FOR SAS<sup>9</sup> EXAM MAJOR TOPICS INCLUDE SQL PROCESSING WITH SAS THE SAS MACRO LANGUAGE ADVANCED SAS PROGRAMMING TECHNIQUES AND OPTIMIZING SAS PROGRAMS AS WELL AS A NEW CHAPTER ON CREATING FUNCTIONS WITH PROC FCMP YOU WILL ALSO BECOME FAMILIAR WITH THE ENHANCEMENTS AND NEW FUNCTIONALITY THAT ARE AVAILABLE IN SAS<sup>9</sup> NEW OR EXPERIENCED SAS USERS WILL FIND THIS GUIDE TO BE AN INVALUABLE RESOURCE THAT COVERS THE OBJECTIVES TESTED ON THE EXAM THE TEXT CONTAINS QUIZZES THAT ENABLE YOU TO TEST YOUR UNDERSTANDING OF MATERIAL IN EACH CHAPTER QUIZ SOLUTIONS ARE INCLUDED AT THE END OF THE BOOK CANDIDATES MUST EARN THE SAS CERTIFIED BASE PROGRAMMER FOR SAS<sup>9</sup> CREDENTIAL BEFORE TAKING THE SAS ADVANCED PROGRAMMING FOR SAS<sup>9</sup> EXAM YOU LL FIND INSTRUCTIONS ON HOW TO OBTAIN SAMPLE DATA WHEN ACCESSING SAS THROUGH SAS ENTERPRISE GUIDE SAS STUDIO SAS UNIVERSITY EDITION AND THE SAS WINDOWING ENVIRONMENT THIS EDITION PROVIDES SIGNIFICANT IMPROVEMENTS TO NUMEROUS EXAMPLES MAKING THE CODE EVEN MORE EFFICIENT EXPERIENCE IS A CRITICAL COMPONENT TO BECOMING A SAS CERTIFIED PROFESSIONAL THIS COMPREHENSIVE GUIDE ALONG WITH TRAINING IN SAS SQL<sup>1</sup> SAS MACRO LANGUAGE<sup>1</sup> AND SAS PROGRAMMING<sup>3</sup> ARE VALUABLE RESOURCES DESIGNED TO HELP YOU PREPARE FOR THE ADVANCED SAS CERTIFICATION EXAM

THE OFFICIAL GUIDE BY THE SAS GLOBAL CERTIFICATION PROGRAM SAS CERTIFIED PROFESSIONAL PREP GUIDE ADVANCED PROGRAMMING USING SAS<sup>9</sup> 4 PREPARES YOU TO TAKE THE NEW SAS<sup>9</sup> 4 ADVANCED PROGRAMMING PERFORMANCE BASED EXAM NEW IN THIS EDITION IS A WORKBOOK WHOSE SAMPLE SCENARIOS REQUIRE YOU TO WRITE CODE TO SOLVE PROBLEMS AND ANSWER QUESTIONS ANSWERS TO THE CHAPTER QUIZZES AND SOLUTIONS TO THE SAMPLE SCENARIOS IN THE WORKBOOK ARE INCLUDED YOU WILL ALSO FIND LINKS TO EXAM OBJECTIVES PRACTICE EXAMS AND OTHER RESOURCES SUCH AS THE BASE SAS GLOSSARY AND A LIST OF PRACTICE DATA SETS MAJOR TOPICS INCLUDE SQL PROCESSING SAS MACRO LANGUAGE PROCESSING AND ADVANCED SAS PROGRAMMING TECHNIQUES ALL EXAM TOPICS ARE COVERED IN THE FOLLOWING CHAPTERS SQL PROCESSING WITH SAS PROC SQL FUNDAMENTALS CREATING AND MANAGING TABLES JOINING TABLES USING PROC SQL JOINING TABLES USING SET OPERATORS USING SUBQUERIES ADVANCED SQL TECHNIQUES SAS MACRO LANGUAGE PROCESSING CREATING AND USING MACRO VARIABLES STORING AND PROCESSING TEXT WORKING WITH MACRO PROGRAMS ADVANCED MACRO TECHNIQUES ADVANCED SAS PROGRAMMING TECHNIQUES DEFINING AND PROCESSING ARRAYS PROCESSING DATA USING HASH OBJECTS USING SAS UTILITY PROCEDURES USING ADVANCED FUNCTIONS PRACTICE PROGRAMMING SCENARIOS WORKBOOK

LEARN TO WRITE SAS PROGRAMS QUICKLY AND EFFICIENTLY PROGRAMMING IN SAS IS FLEXIBLE BUT IT CAN ALSO BE OVERWHELMING MANY NOVICE AND EXPERIENCED PROGRAMMERS LEARN HOW TO WRITE PROGRAMS THAT USE THE DATA STEP AND MACROS BUT THEY OFTEN DON T REALIZE THAT A SIMPLER OR BETTER WAY CAN ACHIEVE THE SAME RESULTS IN A USER FRIENDLY TUTORIAL STYLE PRACTICAL AND EFFICIENT SAS PROGRAMMING THE INSIDER S GUIDE PROVIDES GENERAL SAS PROGRAMMING TIPS THAT USE THE TOOLS AVAILABLE IN BASE SAS INCLUDING THE DATA STEP THE SAS MACRO FACILITY AND SQL DRAWING FROM THE AUTHOR S 30 YEARS OF SAS PROGRAMMING EXPERIENCE THIS BOOK OFFERS SELF CONTAINED SECTIONS THAT DESCRIBE EACH TIP OR TRICK AND PRESENT NUMEROUS EXAMPLES IT THEREFORE SERVES AS BOTH AN EASY REFERENCE FOR A SPECIFIC QUESTION AND A USEFUL COVER TO COVER READ AS A BONUS THE UTILITY PROGRAMS INCLUDED IN THE APPENDIXES WILL HELP YOU SIMPLIFY YOUR PROGRAMS AS WELL AS HELP YOU DEVELOP A SLEEK AND EFFICIENT CODING STYLE WITH THIS BOOK YOU WILL LEARN HOW TO DO THE FOLLOWING USE THE DATA STEP THE SAS MACRO FACILITY SQL AND OTHER BASE SAS TOOLS MORE EFFICIENTLY CHOOSE THE BEST TOOL FOR A TASK USE LOOKUP TABLES SIMULATE RECURSION WITH MACROS READ METADATA WITH THE DATA STEP CREATE YOUR OWN PROGRAMMING STYLE IN ORDER TO WRITE PROGRAMS THAT ARE EASILY MAINTAINED USING THIS BOOK SAS PROGRAMMERS OF ALL LEVELS WILL DISCOVER NEW TECHNIQUES TO HELP THEM WRITE PROGRAMS QUICKLY AND EFFICIENTLY

WOULD YOU LIKE TO BE A TOP SAS PROGRAMMER WOULD YOU LIKE TO BE THE PERSON THAT OTHER SAS PROGRAMMERS TURN TO FOR SOLUTIONS TO PROGRAMMING PROBLEMS IF SO THEN HOW TO BECOME A TOP SAS PROGRAMMER WRITTEN BY MICHAEL RAITHEL IS THE BOOK FOR YOU THIS SELF HELP BOOK PROVIDES INVALUABLE STRATEGIES FOR ENHANCING YOUR SAS PROGRAMMING SKILLS AND INTRODUCES YOU TO A WIDE VARIETY OF SAS RESOURCES THAT ARE READILY AVAILABLE TO YOU INSIDE THIS BOOK YOU WILL LEARN WHAT MAKES A TOP SAS PROGRAMMER FUNDAMENTALS THAT EVERY TOP SAS PROGRAMMER SHOULD MASTER IDEAS FOR ADVANCING YOUR SAS CAREER WITHIN YOUR ORGANIZATION WHERE TO FIND SAS DOCUMENTATION TO LEARN NEW PROGRAMMING TECHNIQUES HOW TO PARTICIPATE IN LOCAL AND REGIONAL SAS USER GROUPS

AND SAS GLOBAL FORUM HOW TO MAKE SAS TRAINING AND CERTIFICATION WORK FOR YOU HOW TO TAKE PART IN SAS VIRTUAL COMMUNITIES TO LEARN CONTRIBUTE AND BECOME WELL KNOWN AND MUCH MORE WANT TO INCREASE YOUR SAS ACUMEN SOLIDIFY THE USE OF SAS IN YOUR ORGANIZATION BE A GREATER BENEFIT TO YOUR ORGANIZATION AS A SAS PROGRAMMER CONTRIBUTE TO THE WORLD WIDE SAS COMMUNITY AND ENJOY GOOD CAREER GROWTH MICHAEL S BOOK WILL HELP THE NOVICE SAS PROGRAMMER OR A SEASONED PROFESSIONAL TO DO ALL THAT AND MORE START READING IT NOW AND BECOME THE TOP SAS PROGRAMMER IN YOUR ORGANIZATION WHO EVERYONE GOES TO FOR INSIGHT AND GUIDANCE INTO THE MANY ASPECTS OF THE SAS WORLD THIS BOOK IS PART OF THE SAS PRESS PROGRAM

MASTERING THE SAS SYSTEM CLEARLY AND COMPLETELY EXPLAINS WHAT THE SAS SYSTEM IS HOW IT WORKS AND WHAT IT CAN DO AN INVALUABLE ADDITION TO ANY REFERENCE LIBRARY

SAS PROGRAMMING AND DATA VISUALIZATION TECHNIQUES A POWER USER S GUIDE BRINGS TOGETHER A WEALTH OF IDEAS ABOUT STRATEGIC AND TACTICAL SOLUTIONS TO EVERYDAY SITUATIONS EXPERIENCED WHEN TRANSFERRING EXTRACTING PROCESSING ANALYZING AND REPORTING THE VALUABLE DATA YOU HAVE AT YOUR FINGERTIPS BEST YOU CAN ACHIEVE MOST OF THE SOLUTIONS USING THE SAS COMPONENTS YOU ALREADY LICENSE MEANING THAT THIS BOOK S INSIGHTS CAN KEEP YOU FROM THROWING MONEY AT PROBLEMS NEEDLESSLY AUTHOR PHILIP R HOLLAND ADVISES A BROAD RANGE OF CLIENTS THROUGHOUT EUROPE AND THE UNITED STATES AS AN INDEPENDENT CONSULTANT AND FOUNDER OF HOLLAND NUMERICS LTD A SAS TECHNICAL CONSULTANCY IN THIS BOOK HE EXPLAINS TECHNIQUES THROUGH CODE SAMPLES AND EXAMPLE THAT WILL ENABLE YOU TO INCREASE YOUR KNOWLEDGE OF ALL ASPECTS OF SAS PROGRAMMING IMPROVE YOUR CODING PRODUCTIVITY AND INTERFACE SAS WITH OTHER PROGRAMS HE ALSO PROVIDES AN EXPERT S OVERVIEW OF GRAPH TEMPLATES WHICH WAS RECENTLY MOVED INTO BASE SAS YOU WILL LEARN TO CREATE ATTRACTIVE STANDARDIZED REUSABLE AND PLATFORM INDEPENDENT GRAPHS BOTH STATISTICAL AND NON STATISTICAL TO HELP YOU AND YOUR BUSINESS USERS EXPLORE VISUALIZE AND CAPITALIZE ON YOUR COMPANY S DATA IN ADDITION YOU WILL FIND MANY EXAMPLES AND CASES PERTAINING TO HEALTHCARE FINANCE RETAIL AND OTHER INDUSTRIES AMONG OTHER THINGS SAS PROGRAMMING AND DATA VISUALIZATION TECHNIQUES WILL SHOW YOU HOW TO WRITE EFFICIENT AND REUSABLE SAS CODE COMBINE LOOK UP DATA SETS WITH LARGER DATA SETS EFFECTIVELY RUN R AND PERL FROM SAS RUN SAS PROGRAMS FROM SAS STUDIO AND ENTERPRISE GUIDE OUTPUT DATA INTO INSIGHTFUL VALUABLE CHARTS AND GRAPHS SAS PROGRAMMING AND DATA VISUALIZATION TECHNIQUES PREPARES YOU TO MAKE BETTER USE OF YOUR EXISTING SAS COMPONENTS BY LEARNING TO USE THE NEWEST FEATURES IMPROVE YOUR CODING EFFICIENCY HELP YOU DEVELOP APPLICATIONS THAT ARE EASIER TO MAINTAIN AND MAKE DATA ANALYSIS EASIER IN OTHER WORDS IT WILL SAVE YOU TIME MONEY AND EFFORT AND MAKE YOU A MORE VALUABLE MEMBER OF THE DEVELOPMENT TEAM WHAT YOU LL LEARN HOW TO WRITE MORE EFFICIENT SAS CODE EITHER CODE THAT RUNS QUICKER CODE THAT IS EASIER TO MAINTAIN OR BOTH HOW TO DO MORE WITH THE SAS COMPONENTS YOU ALREADY LICENSE HOW TO TAKE ADVANTAGE OF THE NEWEST FEATURES IN SAS HOW TO INTERFACE EXTERNAL APPLICATIONS WITH SAS SOFTWARE HOW TO CREATE GRAPHS USING SAS ODS GRAPHICS WHO THIS BOOK IS FOR SAS PROGRAMMERS WANTING TO IMPROVE THEIR EXISTING PROGRAMMING SKILLS AND PROGRAMMING MANAGERS WANTING TO MAKE BETTER USE OF THE SAS SOFTWARE THEY ALREADY LICENSE

DEVELOP AND FINE TUNE YOUR PROGRAMMING SKILLS THE EASY WAY BY EXAMPLE FOR BEGINNING OR INTERMEDIATE USERS THIS BOOK SERVES AS A GUIDE USING A SERIES OF ANNOTATED EXAMPLES THROUGH BASIC TASKS TO MORE COMPLEX ONES PROBLEMS AND SOLUTIONS ARE PROVIDED TO HELP YOU MAKE THE MOST OF THE PROGRAMMING TOOLS AVAILABLE IN BASE SAS SOFTWARE CONVERSATIONAL IN TONE THE BOOK IS USEFUL BOTH AS A TUTORIAL FOR LEARNING PROGRAMMING AND AS A CONVENIENT QUICK REFERENCE FILLED WITH TIPS AND STRATEGIES FOR SOLVING YOUR PROGRAMMING PROBLEMS AMONG THE CLEARLY EXPLAINED EXAMPLES ARE MODELS THAT SHOW YOU HOW TO BUILD SAS DATA SETS USE SAS FUNCTIONS FOR DATA TRANSLATION PROGRAM MORE EFFICIENTLY RELATE INFORMATION FROM MULTIPLE SOURCES AND CHART AND PLOT DATA YOU WILL ALSO LEARN TO WORK WITH SAS DATE VALUES PRODUCE DESCRIPTIVE AND SUMMARY STATISTICS AND WRITE REPORTS

AIMED AT RESEARCHERS AND STUDENTS SAS PROGRAMMING THE ONE DAY COURSE PROVIDES AN INTRODUCTION TO THE SAS PROGRAMMING LANGUAGE IT GIVES THE READER A START IN SAS PROGRAMMING AND THE BASIC DATA MANIPULATIONS AND STATISTICAL SUMMARIES THAT ARE AVAILABLE THROUGH SAS THE BOOK HAS ITS ORIGINS IN MATERIAL PREPARED BY THE AUTHOR FOR A ONE DAY COURSE I

NEW AND UPDATED FOR SAS ENTERPRISE GUIDE 4 2 IN THIS PRAGMATIC EXAMPLE DRIVEN BOOK AUTHOR NEIL CONSTABLE DEMONSTRATES HOW YOU CAN USE SAS CODE TO ENHANCE THE CAPABILITIES OF SAS ENTERPRISE GUIDE DESIGNED TO HELP YOU GAIN EXTRA VALUE FROM THE PRODUCTS YOU ALREADY HAVE SAS PROGRAMMING FOR ENTERPRISE GUIDE USERS CONTAINS TIPS AND TECHNIQUES THAT SHOW YOU A VARIETY OF FEATURES THAT CANNOT BE ACCESSED DIRECTLY THROUGH THE TASK INTERFACES IN ALL CASES TECHNIQUES

ARE SHOWN WITH EXAMPLES THAT YOU CAN TRY AND TEST PLUS ADDITIONAL EXERCISES ARE INCLUDED TO GIVE YOU MORE PRACTICE THE END RESULT IS MORE EFFICIENT AND RESILIENT USE OF SAS ENTERPRISE GUIDE IN A WIDER VARIETY OF BUSINESS AREAS INCLUDED IS A DISCUSSION OF THE FOLLOWING SUBJECT AREAS THE OUTPUT DELIVERY SYSTEM ADVANCED FORMATTING MACRO VARIABLES AND MACROS ADVANCED REPORTING USING PROC REPORT HIGHLIGHTING IN REPORTS HYPERLINKING BETWEEN REPORTS AND GRAPHS DATA MANIPULATION USING SQL DATA MANIPULATION USING THE DATA STEP EXTENDED GRAPHICS BY ADDING SMALL AMOUNTS OF CODE IN KEY AREAS SAS ENTERPRISE GUIDE USERS CAN GET MORE OUT OF THE PRODUCT THAN THE TASKS REVEAL USERS SHOULD BE FAMILIAR WITH THE SAS ENTERPRISE GUIDE USER INTERFACE AND TASKS NO PROGRAMMING EXPERIENCE IS NECESSARY

QUICK SOLUTIONS TECHNIQUES STRATEGIES FOR GETTING THE MOST OUT OF THE SAS SYSTEM MAKE THIS THE PERFECT RESOURCE FOR BUSY SAS USERS PROGRAMMERS NOW UPDATED FOR VERSIONS 6 08 6 10 THIS BEST SELLING TOOLKIT PROVIDES ALL OF THE BOOK S ROUTINES ON A HANDY READY TO USE DISK RICK ASTER RHENA SEIDMAN SHARE CLEVER LITTLE KNOWN PROGRAMMING TIPS SECRETS THEY VE PERFECTED DURING YEARS OF SAS PROGRAMMING CONSULTING THE RIGHT WRONG WAYS TO DO THINGS WAYS TO FACILITATE COMPLICATED TASKS THE TRICKS OF SAS PROS CAN ALL BE FOUND IN THIS BOOK WITH A PROGRAMMER S PERSPECTIVE NO OTHER BOOK PROVIDES

WANT TO GET AHEAD IN A CROWDED JOB MARKET GET CERTIFIED WITH SAS THIS COURSE IS THE FIRST IN A SERIES BY THE SAS INSTITUTE DESIGNED TO PREPARE YOU FOR THE SAS 9 4 CERTIFICATION EXAM LEARN SAS PROGRAMMING ESSENTIALS TO HANDLE THE MOST COMMON DATA PROCESSING TASKS WITH SAS CODE INSTRUCTOR STACEY SYPHOS EXPLORES THE PROGRAMMING TOOLS SAS STUDIO AND SAS ENTERPRISE GUIDE ALONG WITH THE STRUCTURE AND SYNTAX OF A TYPICAL SAS PROGRAM SHE ALSO PROVIDES THREE HANDS ON DEMOS AND SHOWS HOW TO FIND AND RESOLVE ERRORS IN YOUR CODE A KEY TASK FOR SAS PROGRAMMERS THIS COURSE WAS CREATED BY SAS INSTITUTE WE ARE PLEASED TO OFFER THIS TRAINING IN OUR LIBRARY

THIS TASK ORIENTED GUIDE THROUGH THE FUNDAMENTALS OF THE SAS MACRO FACILITY INCLUDES A GENEROUS AMOUNT OF ILLUSTRATIONS EXAMPLES AND TIPS BEGINNING MACRO PROGRAMMERS WILL LEARN TO WRITE SAS MACRO PROGRAMS QUICKLY AND EFFICIENTLY MORE EXPERIENCED MACRO PROGRAMMERS WILL FIND THIS BOOK USEFUL TO REFRESH THEIR CONCEPTUAL KNOWLEDGE AND EXPAND ON THEIR MACRO PROGRAMMING SKILLS THE BOOK ASSUMES SOME SAS PROGRAMMING EXPERIENCE

THE SAS CERTIFIED SPECIALIST PREP GUIDE BASE PROGRAMMING USING SAS 9 4 PREPARES YOU TO TAKE THE NEW SAS 9 4 BASE PROGRAMMING PERFORMANCE BASED EXAM THIS IS THE OFFICIAL GUIDE BY THE SAS GLOBAL CERTIFICATION PROGRAM THIS PREP GUIDE IS FOR BOTH NEW AND EXPERIENCED SAS USERS AND IT COVERS ALL THE OBJECTIVES THAT ARE TESTED ON THE EXAM NEW IN THIS EDITION IS A WORKBOOK WHOSE SAMPLE SCENARIOS REQUIRE YOU TO WRITE CODE TO SOLVE PROBLEMS AND ANSWER QUESTIONS ANSWERS FOR THE CHAPTER QUIZZES AND SOLUTIONS FOR THE SAMPLE SCENARIOS IN THE WORKBOOK ARE INCLUDED YOU WILL ALSO FIND LINKS TO EXAM OBJECTIVES PRACTICE EXAMS AND OTHER RESOURCES SUCH AS THE BASE SAS GLOSSARY AND A LIST OF PRACTICE DATA SETS MAJOR TOPICS INCLUDE IMPORTING DATA CREATING AND MODIFYING SAS DATA SETS AND IDENTIFYING AND CORRECTING BOTH DATA SYNTAX AND PROGRAMMING LOGIC ERRORS ALL EXAM TOPICS ARE COVERED IN THESE CHAPTERS SETTING UP PRACTICE DATA BASIC CONCEPTS ACCESSING YOUR DATA CREATING SAS DATA SETS IDENTIFYING AND CORRECTING SAS LANGUAGE ERRORS CREATING REPORTS UNDERSTANDING DATA STEP PROCESSING BY GROUP PROCESSING CREATING AND MANAGING VARIABLES COMBINING SAS DATA SETS PROCESSING DATA WITH DO LOOPS SAS FORMATS AND INFORMATS SAS DATE TIME AND DATETIME VALUES USING FUNCTIONS TO MANIPULATE DATA PRODUCING DESCRIPTIVE STATISTICS CREATING OUTPUT PRACTICE PROGRAMMING SCENARIOS WORKBOOK

THIS COMPREHENSIVE RESOURCE PROVIDES ON THE JOB TRAINING FOR STATISTICAL PROGRAMMERS WHO USE SAS IN THE PHARMACEUTICAL INDUSTRY THIS ONE STOP RESOURCE OFFERS A COMPLETE REVIEW OF WHAT ENTRY TO INTERMEDIATE LEVEL STATISTICAL PROGRAMMERS NEED TO KNOW IN ORDER TO HELP WITH THE ANALYSIS AND REPORTING OF CLINICAL TRIAL DATA IN THE PHARMACEUTICAL INDUSTRY SAS PROGRAMMING IN THE PHARMACEUTICAL INDUSTRY SECOND EDITION BEGINS WITH AN INTRODUCTION TO THE PHARMACEUTICAL INDUSTRY AND THE WORK ENVIRONMENT OF A STATISTICAL PROGRAMMER THEN IT GIVES A CHRONOLOGICAL EXPLANATION OF WHAT YOU NEED TO KNOW TO DO THE JOB IT INCLUDES INFORMATION ON IMPORTING AND MASSAGING DATA INTO ANALYSIS DATA SETS PRODUCING CLINICAL TRIAL OUTPUT AND EXPORTING DATA THIS EDITION HAS BEEN UPDATED FOR SAS 9 4 AND IT FEATURES NEW GRAPHICS AS WELL AS ALL NEW EXAMPLES USING CDISC SDTM OR ADAM MODEL DATA STRUCTURES WHETHER YOU RE A NOVICE SEEKING AN INTRODUCTION TO SAS PROGRAMMING IN THE PHARMACEUTICAL INDUSTRY OR A JUNIOR LEVEL PROGRAMMER EXPLORING NEW APPROACHES TO PROBLEM SOLVING THIS REAL WORLD REFERENCE GUIDE OFFERS A WEALTH OF PRACTICAL SUGGESTIONS TO HELP YOU SHARPEN YOUR SKILLS THIS BOOK IS PART OF THE SAS PRESS

PROGRAM

THE KEY TO ENSURING ACCURATE DATA IS HAVING CLEAN DATA THIS BOOK DEVELOPS AND DESCRIBES DATA CLEANING PROGRAMS AND MACROS YOU CAN USE MANY OF THE PROGRAMS AND MACROS THAT ARE PROVIDED AS IS OR YOU CAN MODIFY THEM FOR YOUR OWN SPECIAL DATA CLEANING TASKS RON HAS CAREFULLY EXPLAINED AND DOCUMENTED EACH OF THE PROGRAMS AND MACROS THUS PROVIDING YOU WITH SAS PROGRAMMING INSTRUCTION ON AN INTERMEDIATE TO ADVANCED LEVEL WRITTEN IN RON S SIGNATURE INFORMAL TUTORIAL STYLE THIS BOOK GIVES ANYONE WHO MANAGES DATA THOROUGHLY DOCUMENTED STEP BY STEP INSTRUCTIONS FOR THE DEVELOPMENT OF DATA CLEANING PROGRAMS AND MACROS BOOK JACKET

THE OFFICIAL GUIDE BY THE SAS GLOBAL CERTIFICATION PROGRAM SAS CERTIFIED PROFESSIONAL PREP GUIDE ADVANCED PROGRAMMING USING SAS 9 4 PREPARES YOU TO TAKE THE NEW SAS 9 4 ADVANCED PROGRAMMING PERFORMANCE BASED EXAM NEW IN THIS EDITION IS A WORKBOOK WHOSE SAMPLE SCENARIOS REQUIRE YOU TO WRITE CODE TO SOLVE PROBLEMS AND ANSWER QUESTIONS ANSWERS TO THE CHAPTER QUIZZES AND SOLUTIONS TO THE SAMPLE SCENARIOS IN THE WORKBOOK ARE INCLUDED YOU WILL ALSO FIND LINKS TO EXAM OBJECTIVES PRACTICE EXAMS AND OTHER RESOURCES SUCH AS THE BASE SAS GLOSSARY AND A LIST OF PRACTICE DATA SETS MAJOR TOPICS INCLUDE SQL PROCESSING SAS MACRO LANGUAGE PROCESSING AND ADVANCED SAS PROGRAMMING TECHNIQUES ALL EXAM TOPICS ARE COVERED IN THE FOLLOWING CHAPTERS SQL PROCESSING WITH SAS PROC SQL FUNDAMENTALS CREATING AND MANAGING TABLES JOINING TABLES USING PROC SQL JOINING TABLES USING SET OPERATORS USING SUBQUERIES ADVANCED SQL TECHNIQUES SAS MACRO LANGUAGE PROCESSING CREATING AND USING MACRO VARIABLES STORING AND PROCESSING TEXT WORKING WITH MACRO PROGRAMS ADVANCED MACRO TECHNIQUES ADVANCED SAS PROGRAMMING TECHNIQUES DEFINING AND PROCESSING ARRAYS PROCESSING DATA USING HASH OBJECTS USING SAS UTILITY PROCEDURES USING ADVANCED FUNCTIONS PRACTICE PROGRAMMING SCENARIOS WORKBOOK

EVENTUALLY, **APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE 5TH EDITION** WILL UNCONDITIONALLY DISCOVER A FURTHER EXPERIENCE AND FINISHING BY SPENDING MORE CASH. NEVERTHELESS WHEN? REACH YOU AGREE TO THAT YOU REQUIRE TO GET THOSE EVERY NEEDS LIKE HAVING SIGNIFICANTLY CASH? WHY DONT YOU ATTEMPT TO GET SOMETHING BASIC IN THE BEGINNING? THATS SOMETHING THAT WILL GUIDE YOU TO UNDERSTAND EVEN MORE APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE 5TH EDITIONCONCERNING THE GLOBE, EXPERIENCE, SOME PLACES, IN THE MANNER OF HISTORY, AMUSEMENT, AND A LOT MORE? IT IS YOUR UNCONDITIONALLY APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE 5TH EDITIONOWN TIME TO PLAY REVIEWING HABIT. IN THE MIDST OF GUIDES YOU COULD ENJOY NOW IS **APPLIED STATISTICS AND THE SAS PROGRAMMING LANGUAGE 5TH EDITION** BELOW.

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