

# Software Testing Methodologies (STM)

## Unit 4 – Domain Testing

Compiled with reference from:  
Software Testing Techniques: Boris Beizer  
Craft of Software Testing: Brian Marrick

*Narasimha Rao.P*

## Domain Testing

u3

We will see in this part of Unit 3:

- **Domains & Paths**
- **Nice & Ugly Domains**
- **Domain Testing**
- **Domains & Interfaces Testing**
- **Domains & Testability**

# The Domain Testing Workbook

**Rachel Sandford**



## **The Domain Testing Workbook:**

*The Domain Testing Workbook* Cem Kaner, Sowmya Padmanabhan, Douglas Hoffman, 2013-10 Domain testing is the most widely taught technique in software testing. However, many of the presentations stick with examples that are too simple to provide a strong basis for applying the technique. Others focus on mathematical models or analysis of the program's source code. The Domain Testing Workbook will help you develop deep skill with this technique, whether or not you have access to source code or an abiding interest in mathematics. The Domain Testing Workbook provides a schema to organize domain testing and test design with dozens of practical problems and sample analyses. Readers can try their hand at applying the schema and compare their analyses against over 200 pages of worked examples. You will learn when and how to use domain testing, how to apply a risk-focused approach with domain testing, how to use domain testing within a broader testing strategy, and how to use domain testing in an exploratory way. This book is for software testers who want to develop expertise in the field's most popular test technique, test managers who want to assess and improve their staff's skills, trainers and professors interested in adding depth and skill-based learning to black box testing or test design classes.

Cem Kaner, J.D., Ph.D., is Professor of Software Engineering at the Florida Institute of Technology. Dr. Kaner is senior author of *Testing Computer Software*, *Lessons Learned in Software Testing*, and *Bad Software*. The ACM's Special Interest Group for Computers and Society presented him with the Making a Difference Award in 2009, and the Software Test Professionals presented him with the Software Test Luminary Award in 2012. Kaner was a founder of the Association for Software Testing. He is lead developer of the BBST™ Black Box Software Testing courses and courseware. Sowmya Padmanabhan, M.Sc., currently works at Google as a Program Manager. Before that, she worked in Program Management and Software Development Test at Microsoft and at Texas Instruments. She has a Masters degree in Computer Sciences with a specialization in Software Testing. Sowmya's thesis involved extensive research in training new testers to do skilled Domain Testing. Douglas Hoffman, M.S.E.E.M.B.A., is an independent management consultant with Software Quality Methods LLC. He is a Fellow of the American Society for Quality. He has authored numerous papers and is a contributing author of *Experiences of Test Automation*. He has taught several courses on software testing and test automation for the University of California's Extension campuses. He has served as President of the Association for Software Testing and of the Silicon Valley Software Quality Association, and as Section Chair of the Silicon Valley Section of ASQ.

**Advanced Testing of Systems-of-Systems, Volume 1** Bernard Homès, 2023-02-07

As a society today, we are so dependent on systems of systems that any malfunction has devastating consequences, both human and financial. Their technical design, functional complexity, and numerous interfaces justify a significant investment in testing in order to limit anomalies and malfunctions. Based on more than 40 years of practice in the development and testing of systems, including safety-critical systems, this book discusses development models, testing methodologies, and techniques, and identifies their advantages and disadvantages. Pragmatic and clear, this book displays many examples and references that

will help you improve the quality of your systems of systems efficiently and effectively and lead you to identify the impact of upstream decisions and their consequences Advanced Testing of Systems of Systems 1 is complemented by a second volume dealing with the practical implementation and use of the techniques and methodologies proposed here **The Agile Testing Collection** Janet Gregory, Lisa Crispin, 2015-06-22 A Comprehensive Collection of Agile Testing Best Practices Two Definitive Guides from Leading Pioneers Janet Gregory and Lisa Crispin haven't just pioneered agile testing they have also written two of the field's most valuable guidebooks Now you can get both guides in one indispensable eBook collection today's must-have resource for all agile testers teams managers and customers Combining comprehensive best practices and wisdom contained in these two titles The Agile Testing Collection will help you adapt agile testing to your environment systematically improve your skills and processes and strengthen engagement across your entire development team The first title Agile Testing A Practical Guide for Testers and Agile Teams defines the agile testing discipline and roles and helps you choose organize and use the tools that will help you the most Writing from the tester's viewpoint Gregory and Crispin chronicle an entire agile software development iteration and identify and explain seven key success factors of agile testing The second title More Agile Testing Learning Journeys for the Whole Team addresses crucial emerging issues shares evolved practices and covers key issues that delivery teams want to learn more about It offers powerful new insights into continuous improvement scaling agile testing across teams and the enterprise overcoming pitfalls of automation testing in regulated environments integrating DevOps practices and testing mobile embedded and business intelligence systems The Agile Testing Collection will help you do all this and much more Customize agile testing processes to your needs and successfully transition to them Organize agile teams clarify roles hire new testers and quickly bring them up to speed Engage testers in agile development and help agile team members improve their testing skills Use tests and collaborate with business experts to plan features and guide development Design automated tests for superior reliability and easier maintenance Plan just enough balancing small increments with larger feature sets and the entire system Test to identify and mitigate risks and prevent future defects Perform exploratory testing using personas tours and test charters with session and thread-based techniques Help testers developers and operations experts collaborate on shortening feedback cycles with continuous integration and delivery Both guides in this collection are thoroughly grounded in the authors' extensive experience and supported by examples from actual projects Now with both books integrated into a single easily searchable and cross-linked eBook you can learn from their experience even more easily *Testing Software and Systems* Silvia Bonfanti, Angelo Gargantini, Paolo Salvaneschi, 2023-09-18 This book constitutes the refereed proceedings of the 35th IFIP WG 6.1 International Conference on Testing Software and Systems ICTSS 2023 held in Bergamo Italy during September 18-20 2023 The 13 full papers presented together with 6 short papers and one journal paper were carefully reviewed and selected from 56 submissions The conference focuses on Test Case Generation Test Automation and Design Model Based Testing and AI

and Smart Contracts Testing      **Effective Software Testing** Mauricio Aniche,2022-04-26 Effective Software Testing is a hands on guide to creating bug free software Written for developers it guides you through all the different types of testing from single units up to entire components You ll also learn how to engineer code that facilitates testing and how to write easy to maintain test code Offering a thorough systematic approach this book includes annotated source code samples realistic scenarios and reasoned explanations      **Foundations of Software Testing** Cem Kaner,Rebecca L. Fiedler,2013-12 The Foundations in Software Testing workbook supports students and self studiers who want a context driven introduction to black box software testing Used in parallel with the instructional materials provided at the Center for Software Testing Education and Research testingeducation.org BBST readers will learn basic testing terminology and consider fundamental challenges in software testing These challenges include the mission of testing the oracle problem the measurement problem and the impossibility of complete testing      *Basic Course Workbook Series* ,1977-06      **Basic Course Workbook Series, Instructor Materials** ,1997      *Analogical Process Performance and Training* Clark Nives Quinn,1989      **A & P Technician Airframe FAA Airmen Knowledge Test Guide** ,2002      **Indiana Statewide Testing for Educational Progress, ISTEP** ,1990      **POST Basic Course Management Guide** California. Commission on Peace Officer Standards and Training,2001 The purpose of this fifth edition guide is to offer organizational operational and technical guidelines relevant to the delivery of the regular basic course including guidance in the development of internal academy management policies It represents the collective development of POST staff and basic academy directors and coordinators The regular basic course learning domain instructional system is a complex arrangement of instructional units learning needs learning objectives training and testing methodologies and mandated hours supported by student workbooks The system is developed and maintained by the contributions of law enforcement practitioners and trainers from throughout the state      *Reading Research Quarterly* ,1982      **Learning Directory** ,1970      *Journal of Artificial Intelligence in Education* ,1989      **MSDN Magazine** ,2005      **A Guide to Criterion-referenced Test Construction** Ronald A. Berk,1984 This book is divided into 11 chapters The topics covered are arranged sequentially and correspond to the major steps in developing a criterion referenced test from defining the type of test through the analysis of its technical characteristics      **POST Scripts** ,1998      *Texas Tech Journal of Education* Texas Tech University,1982      *Commission Meeting Minutes* California. Commission on Peace Officer Standards and Training,2003

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