

# **Qsyn**

***the* Toolbox for  
Robust Control Systems Design  
for use with Matlab**

## **User's Guide**

**May 1996**

# WELCOME TO QSYN

## Installation Procedure

The installation procedure is detailed in the text (Ascii) file `install.txt` to be found in the Qsyn library on the Qsyn distribution diskette.

Qsyn works with Matlab v. 4.2 or higher.

## Documentation

This User's Guide is accompanied by an alphabetic Reference Guide that copies the help texts of all Qsyn functions.

A table of contents of the User's Guide follows this page.

In Chapter 3 of this User's Guide, the Qsyn functions are tabled in groups according to use. The functions are further divided into Primary Commands meant for standard use, and Auxiliary Commands, that are either subroutines to the primary commands or meant for the advanced user who wants to write her own functions.

The Appendix of Chapter 3 lists all Qsyn commands alphabetically with a short description.

The tables of Chapter 3 and the alphabetical listing is also found in the file `contents.m` in the Qsyn library.

## On-line help

Typing

```
help qsyn
```

displays, in the Matlab Command Window, the text of the file `contents.m`, i.e. all Qsyn commands grouped according to use, and alphabetically, with a short description.

Typing help, followed by a name of a Qsyn function, e.g.

```
help ctpl
```

displays, in the Matlab Command Window, the full help text of the command. The same information is found in the Reference Guide.

Typing the Qsyn command without input arguments, e.g.

```
ctpl
```

displays, in the Matlab Command Window, one line containing the syntax of the command with all its output and input arguments.

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# TABLE OF CONTENTS

|  |                  |
|--|------------------|
| <b>1. QFT FOR BASIC SISO SYSTEMS: A QUICK REVIEW</b>   | <b>1 : 1</b>     |
| 1.1 Two degree-of-freedom system                       | 1 : 2            |
| 1.2 Plant uncertainty                                  | 1 : 2            |
| 1.3 Specifications                                     | 1 : 3            |
| Example 1.1  | 1 : 5            |
| 1.4 The robust control problem                         | 1 : 6            |
| 1.5 The Horowitz bounds                                | 1 : 6            |
| Example 1.2. Tolerance bound                           | 1 : 7            |
| 1.6 Feedback compensator design and loop shaping       | 1 : 7            |
| Exercise 1.1. Loop shaping                             | 1 : 8            |
| 1.7 Closed loop stability                              | 1 : 9            |
| Theorem 1.1. Closed loop stability                     | 1 : 10           |
| 1.8 Prefilter design                                   | 1 : 10           |
| 1.9 Simulations of the closed loop                     | 1 : 11           |
| 1.10 When your design attempt fails ...                | 1 : 11           |
| Theorem 1.2. Arbitrary small tolerance and sensitivity | 1 : 11           |
| Appendix to Chapter 1                                  | 1 : 13           |
| <br><b>2. A BASIC SISO DESIGN EXAMPLE USING QSYN</b>   | <br><b>2 : 1</b> |
| Example 2.1 A basic SISO design example                | 2 : 1            |
| 2.1 Plant description                                  | 2 : 1            |
| 2.1.1 Plant description file head                      | 2 : 3            |
| 2.1.2 Definition of the parameters                     | 2 : 3            |
| 2.1.3 Definition of the frequency vectors              | 2 : 4            |
| Random Grid Method                                     | 2 : 5            |
| Recursive Grid Method                                  | 2 : 5            |
| 2.1.5 Definition of the plant transfer function        | 2 : 6            |
| 2.1.6 Plant description files                          | 2 : 7            |
| 2.2 Template computation                               | 2 : 9            |
| 2.2.1 Templates computed with the RFF Method           | 2 : 9            |
| 2.2.2 Templates with the edge grid and grid methods    | 2 : 10           |
| 2.2.3 Pruning and reduction                            | 2 : 11           |
| 2.3 Specifications                                     | 2 : 13           |
| 2.3.1 Servo specification                              | 2 : 13           |
| 2.3.2 Sensitivity specification                        | 2 : 16           |
| 2.4 Bounds computation                                 | 2 : 17           |
| 2.4.1 Tolerance bounds                                 | 2 : 17           |
| 2.4.2 Sensitivity bounds                               | 2 : 18           |
| 2.4.3 Dominant bounds                                  | 2 : 20           |
| 2.5 Feedback compensator design                        | 2 : 20           |
| 2.6 Closing the loop                                   | 2 : 26           |
| 2.7 Prefilter design                                   | 2 : 27           |
| 2.8 Simulations  | 2 : 29           |
| 2.9 Conclusions  | 2 : 32           |
| 2.10 Summary of the Qsyn command sequence              | 2 : 32           |

|   |               |
|---|---------------|
| <b>3. QSYN FLOW CHART, COMMANDS, DATA STRUCTURE</b>               | <b>3 : 1</b>  |
| First user input: Plant description                               | 3 : 1         |
| Second user input: Loop specifications                            | 3 : 1         |
| Resulting bounds  | 3 : 1         |
| Design functions  | 3 : 3         |
| Cascaded and MIMO designs   | 3 : 3         |
| <b>3.1 Plant description files and related commands</b>           | <b>3 : 3</b>  |
| <b>3.2 Template files and their commands</b>                      | <b>3 : 4</b>  |
| <b>3.3 Specifications files, criteria functions with commands</b> | <b>3 : 6</b>  |
| 3.3.1 Specification files   | 3 : 6         |
| 3.3.2 Criteria functions  | 3 : 8         |
| 3.3.3 Commands connected to specification files                   | 3 : 10        |
| <b>3.4 Bound files and their commands</b>                         | <b>3 : 10</b> |
| <b>3.5 Controller functions and their commands</b>                | <b>3 : 12</b> |
| <b>3.6 Commands for simulation</b>                                | <b>3 : 13</b> |
| <b>3.7 Commands for cascaded design</b>                           | <b>3 : 14</b> |
| <b>3.8 Utility commands</b>                                       | <b>3 : 15</b> |
| <b>Appendix: Qsyn commands alphabetically</b>                     | <b>3 : 16</b> |
| <br>  |               |
| <b>4. MORE ABOUT PLANTS AND TEMPLATES</b>                         | <b>4 : 1</b>  |
| <br>  |               |
| <b>4.1 Unstructured uncertainty, delay, integrators.</b>          |               |
| Tree Structured Decomposition                                     | 4 : 1         |
| 4.1.1 Conclusions   | 4 : 5         |
| <b>4.2 The Edge Theorem</b>                                       | <b>4 : 6</b>  |
| 4.2.1 Conclusions   | 4 : 7         |
| <b>4.3 Unstable and non-minimum phase plants</b>                  | <b>4 : 7</b>  |
| <b>4.4 Dependent parameters</b>                                   | <b>4 : 8</b>  |
| <b>4.5 Templates from measured data and plant modelling</b>       | <b>4 : 10</b> |
| 4.5.1 Example   | 4 : 10        |
| <b>4.6 Adding a template into an existing template file</b>       | <b>4 : 13</b> |
| <b>4.7 Creating the union of two template files</b>               | <b>4 : 14</b> |
| <b>4.8 RFF with accuracy enhancement and reduction</b>            | <b>4 : 16</b> |

|   |                  |
|---|------------------|
| <b>5. MORE ABOUT SPECIFICATIONS AND BOUNDS</b>                  | <b>5 : 1</b>     |
| <b>5.1 Combination of specifications</b>                        | <b>5 : 2</b>     |
| 5.1.1 Combination by matrix manipulation                        | 5 : 2            |
| 5.1.2 Combination using the command <code>spcupd</code>         | 5 : 4            |
| 5.1.3 Combination using the command <code>mspc</code>           | 5 : 4            |
| <b>5.2 Manufacture of other specifications</b>                  | <b>5 : 5</b>     |
| 5.2.1 Graphical definition using <code>makespc</code>           | 5 : 5            |
| Example: iosrs specification                                    | 5 : 5            |
| Example: error coefficient specification                        | 5 : 6            |
| Example: noise rejection specification                          | 5 : 6            |
| 5.2.2 Filtered specifications                                   | 5 : 7            |
| Example: filtered odsrs specifcaton                             | 5 : 7            |
| Example: PSD based idsrs specification                          | 5 : 8            |
| Other specifications  | 5 : 9            |
| <b>5.3 User defined criteria functions</b>                      | <b>5 : 10</b>    |
| Example: criterion function for error coefficients              | 5 : 10           |
| <b>5.4 Updating a bound file</b>                                | <b>5 : 10</b>    |
| 5.4.1 Adding a bound for a new frequency to a bound file        | 5 : 11           |
| 5.4.2 Refining a bound with the command <code>bndupd</code>     | 5 : 12           |
| <b>5.5 Composite bounds</b>                                     | <b>5 : 12</b>    |
| <b>5.6 Bounds from user defined specification and criterion</b> | <b>5 : 14</b>    |
| <br><b>6. MORE ABOUT DESIGN</b>                                 | <br><b>6 : 1</b> |
| 6.1 Film  | 6 : 2            |
| 6.2 Design for a plant without uncertainty                      | 6 : 2            |
| 6.2.1 Plant described as nominal in a plant description file    | 6 : 2            |
| 6.2.2 Plant described with a controller function m-file         | 6 : 3            |
| 6.2.3 Bounds for plants without uncertainty                     | 6 : 4            |
| 6.3 Digital control   | 6 : 4            |
| <br><b>7. CASCADED DESIGN</b>                                   | <br><b>7 : 1</b> |
| 7.1 Design procedure  | 7 : 1            |
| 7.2 A cascaded design example                                   | 7 : 3            |
| 7.2.1 Plant definition and templates                            | 7 : 3            |
| 7.2.2 Specifications  | 7 : 4            |
| 7.2.3 Outer loop feedback design                                | 7 : 5            |
| 7.2.4 Inner loop feedback design                                | 7 : 7            |
| 7.2.5 Closing the loops   | 7 : 8            |
| 7.2.6 Prefilter design  | 7 : 10           |
| <br><b>8. MIMO DESIGN</b>                                       | <br><b>8 : 1</b> |
| <br><b>9. REFERENCES</b>  | <br><b>9 : 1</b> |

