5.8 Scalar quadratic forms 36

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CHAPTER

TWO

4. Change directories to the top of the CVX distribution, and run the `cvx_setup` command. For

CHAPTER

THREE

A QUICK START

Once you have installed CVX (see *Installation*), you can start using it by entering a CVX *specification* into a

CHAPTER

FOUR

THE BASICS

The elementwise treatment of inequalities is altered in *semidefinite programming mode*; see that section for more details.

```
y =
    cvx dual variable (20x1 vector)
```

It is not necessary to place the dual variable on the left side of the constraint; for example, the line above can also be written in this way:

```
A * x <= b : y;
```

CHAPTER

FIVE

THE DCP RULESET

the categories have the following meanings:

5.3.1 Strict inequalities

As mentioned in *Constraints*

  - the sum or difference of affine expressions;
  - the product of an affine expression and a constant.

- A valid convex expression is

will be recognized as convex. Once a quadratic form has been verified by CVX, it can be freely used in any

CHAPTER

SIX

CHAPTER

EIGHT

SOLVERS

8.1

8.4 Interpreting the results

```
cvx_solver_settings -clear
```

To clear just a single setting, type

CHAPTER

NINE

- Indexing:

The average absolute deviation about the median $\mathbf{m}(x)$ of x. Convex.

`cvx_setup` The setup script used to install and configure CVX; see *Installation*.

`cvx_solver` Selects the solver to be employed when solving CVX models; see

```
1e20
```

There are two practical issues that arise when defining functions using incomplete specifications, both of which we will illustrate using our `huber`

restriction. Please contact us if you are interested in creating such an interface; we can offer assistance. If you do create one, please consider submitting it to us for inclusion in the standard CVX distribution; but you are under no obligation to do this. Instead, you can ship the interface code with the solver itself; or you can construct a modified version of the redistributable CVX package with your interface in549e(Ins-250(a)250(9e(Ins-(-13.5

CHAPTER

SIXTEEN

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BIBLIOGRAPHY

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