

Statistické zpracování dat

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<http://meloun.upce.cz>

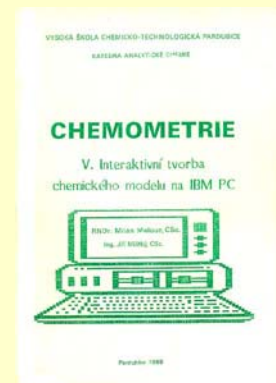
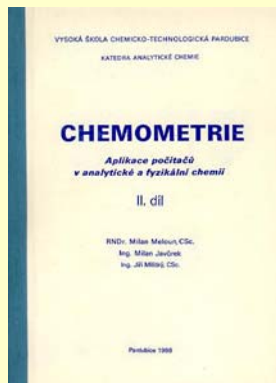
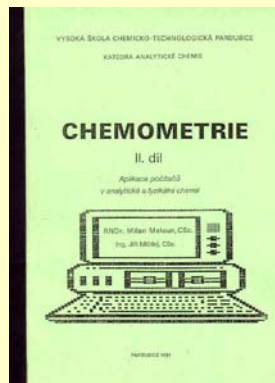
milan.meloun@upce.cz



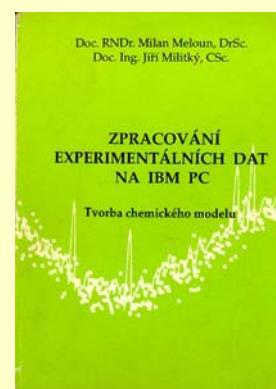
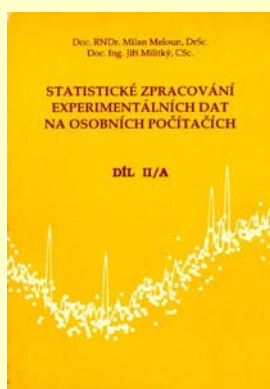
B. Učebnice a cvičebnice

Statistické zpracování experimentálních dat

Učebnice pro licenční studium a řádnou výuku studentů od 1988

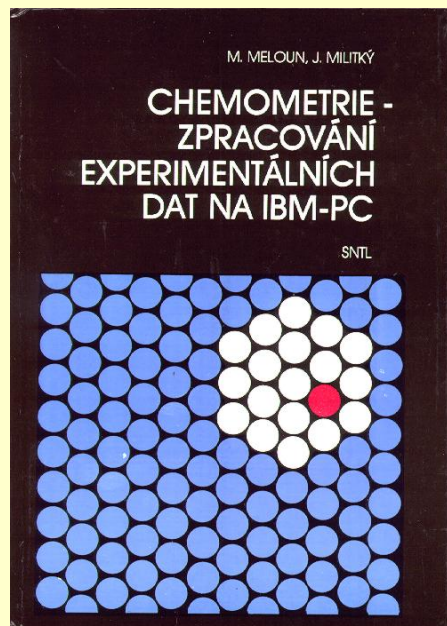


1988



1990

Vývoj učebnic pro Statistické zpracování experimentálních dat



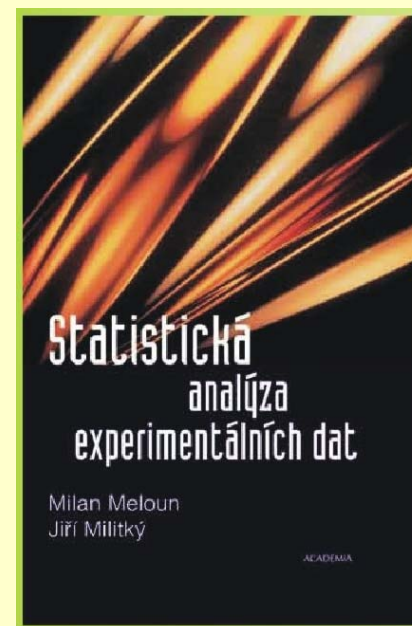
1991



1994, 1995



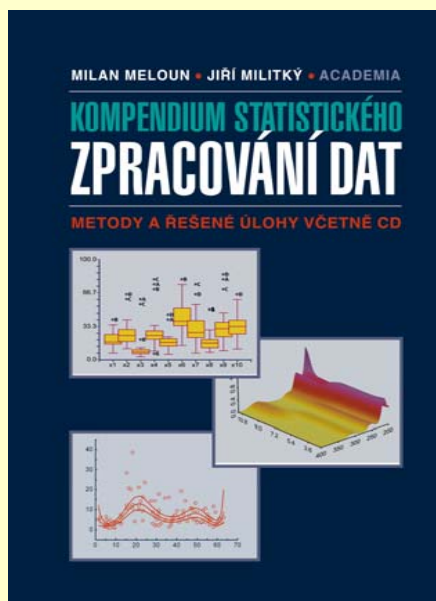
1998



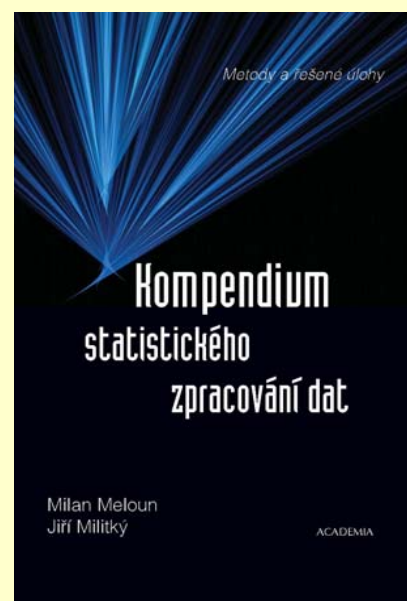
2004



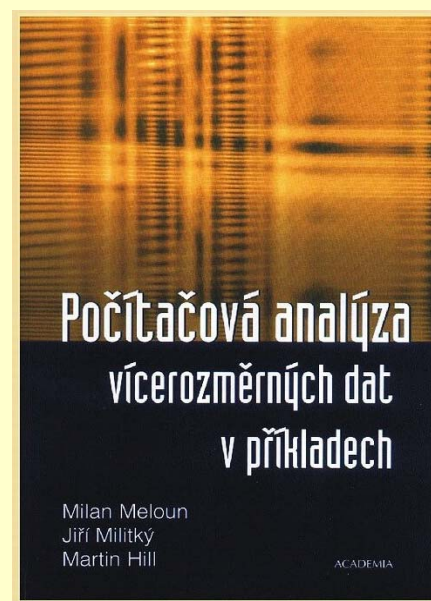
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2002



2006

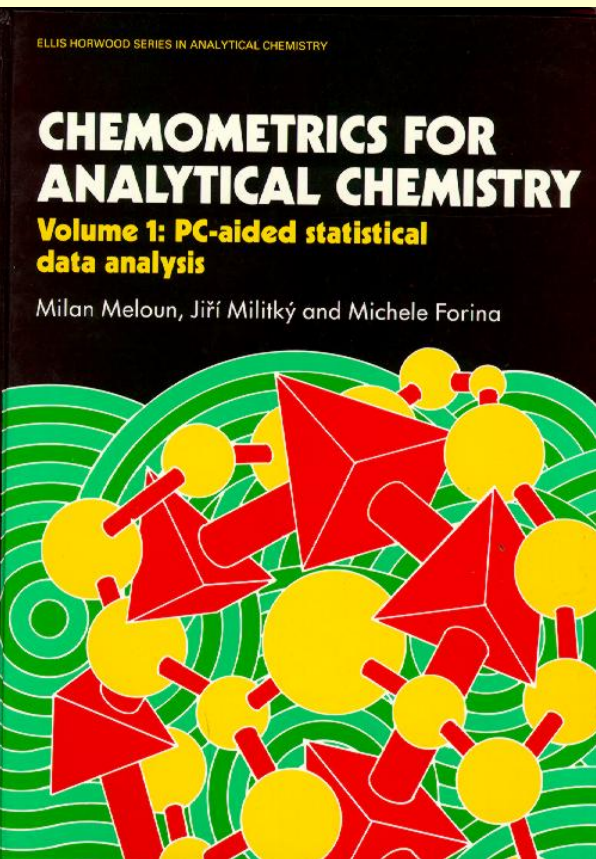


2005

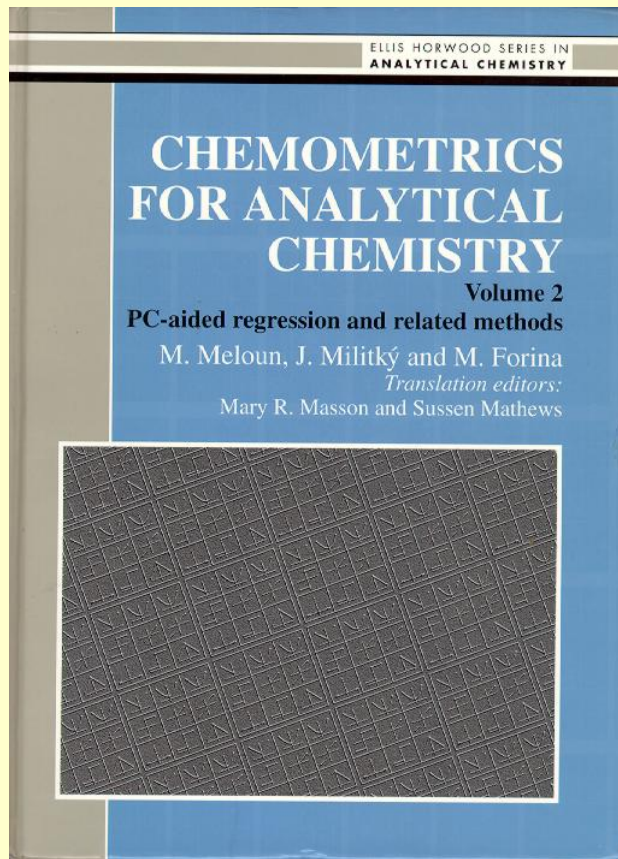
Statistické zpracování experimentálních dat

Učebnice v angličtině

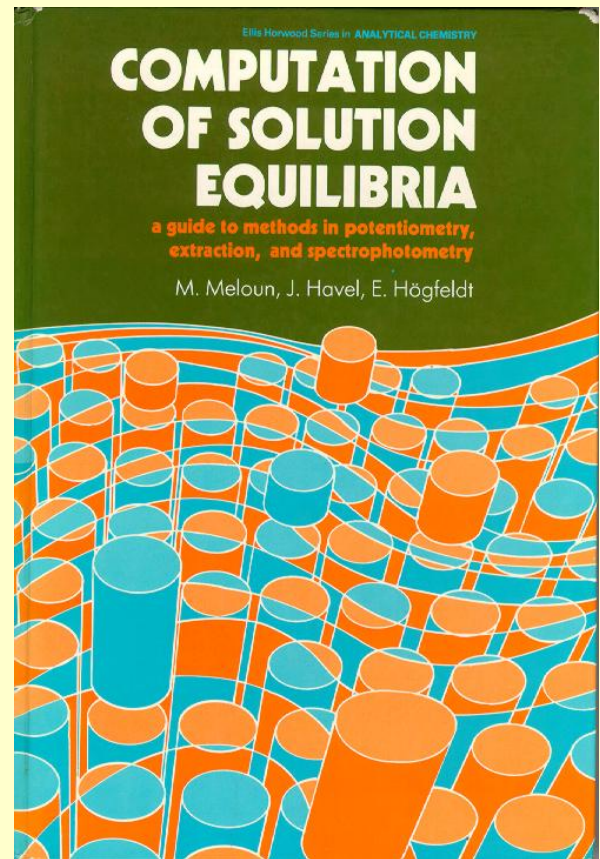
(Ellis Horwood, Chichester – John Wiley & Son, New York)



1992



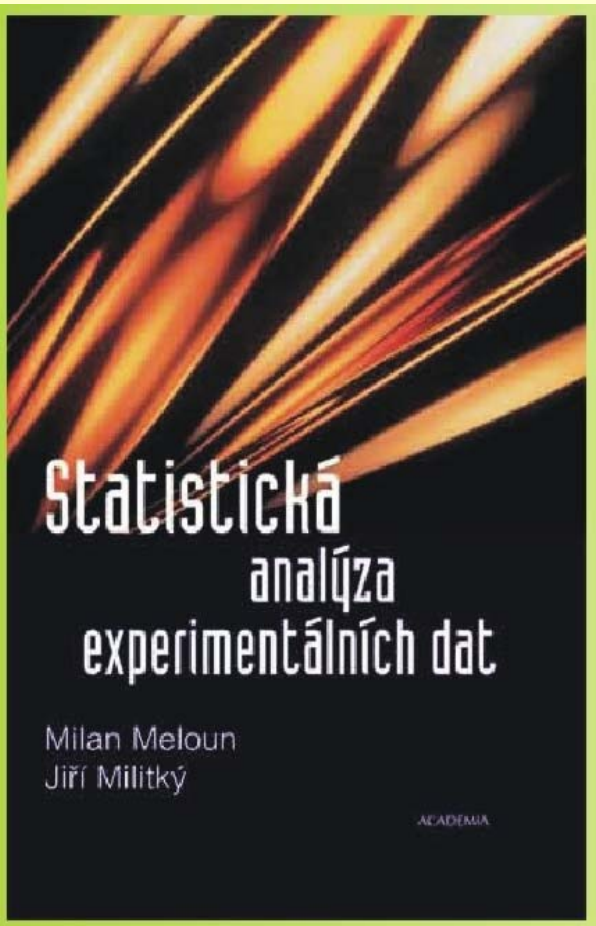
1994



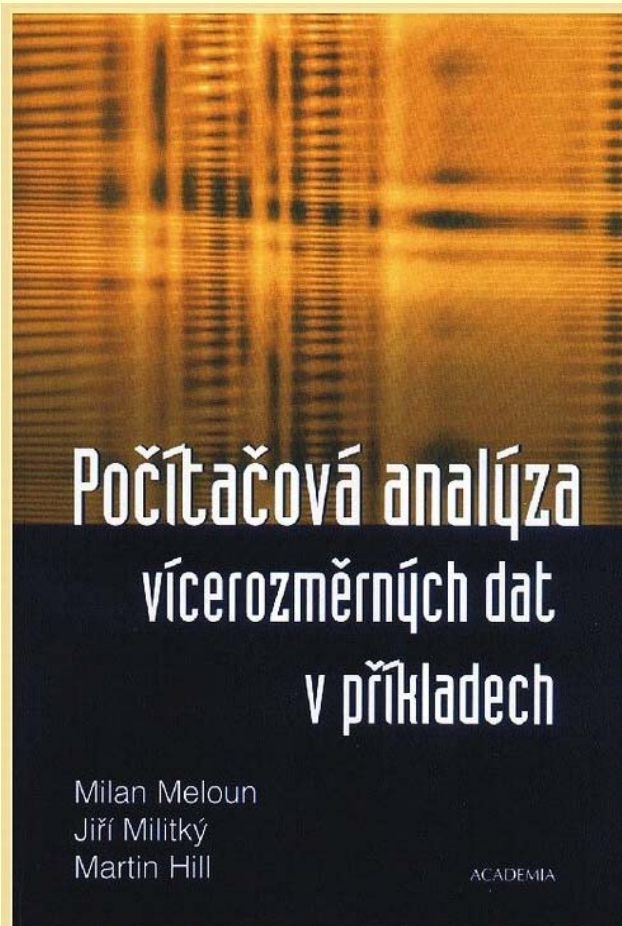
1986

Statistické zpracování experimentálních dat

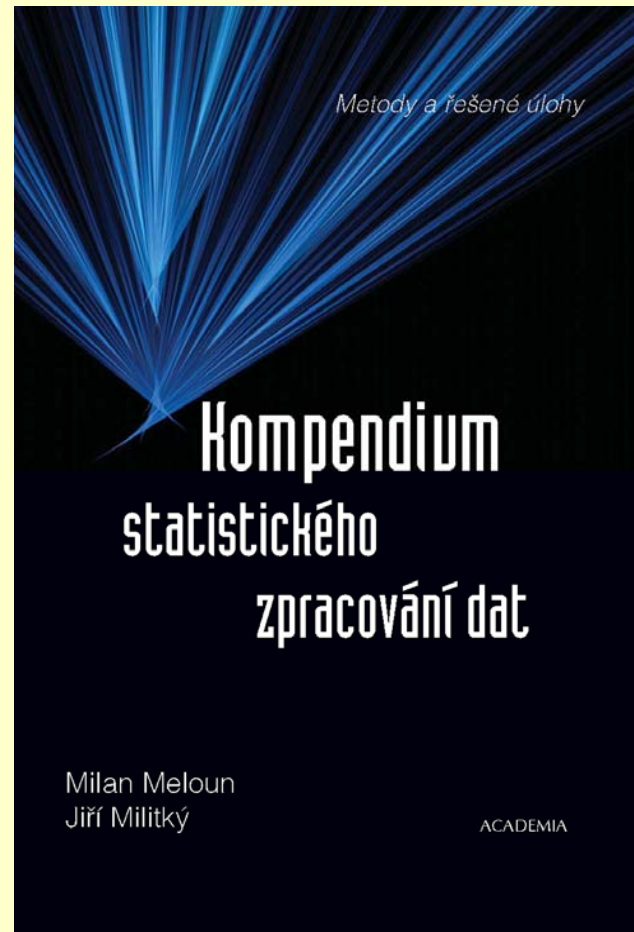
Potřebná literatura ke studiu v roce 2006



2004, 970 stran, 690,- Kč



2005, 500 stran, 450,- Kč



2006, 980 stran, 600,- Kč



An International Journal on the Teaching and Learning of Statistics

JSE Data Archive

Mathematics Department



<http://my.execpc.com/~helberg/statistics.html>

Fionn Murtagh's

Multivariate Data Analysis Software and Resources

Page

Contents:

1. MDA-J: Multivariate Data Analysis - Java
2. Multivariate Data Analysis Software as Java Applications
3. Multivariate Data Analysis Software in Fortran (and C)
4. Multivariate Data Analysis Software in S-Plus/R (and Fortran), including hierarchical clustering with weights on cases (in R and C) and including hierarchical Haar wavelet transform (in R) [New 2005-01-19 \(Mac OS X information\)](#).
5. Gaussian Mixture Modeling with Bayes Factors in C
6. Resources and Links, including: JP Benzécri's Pascal code for Correspondence Analysis; Multidimensional Scaling; Point Pattern Matching; and Reading FITS Files in R.

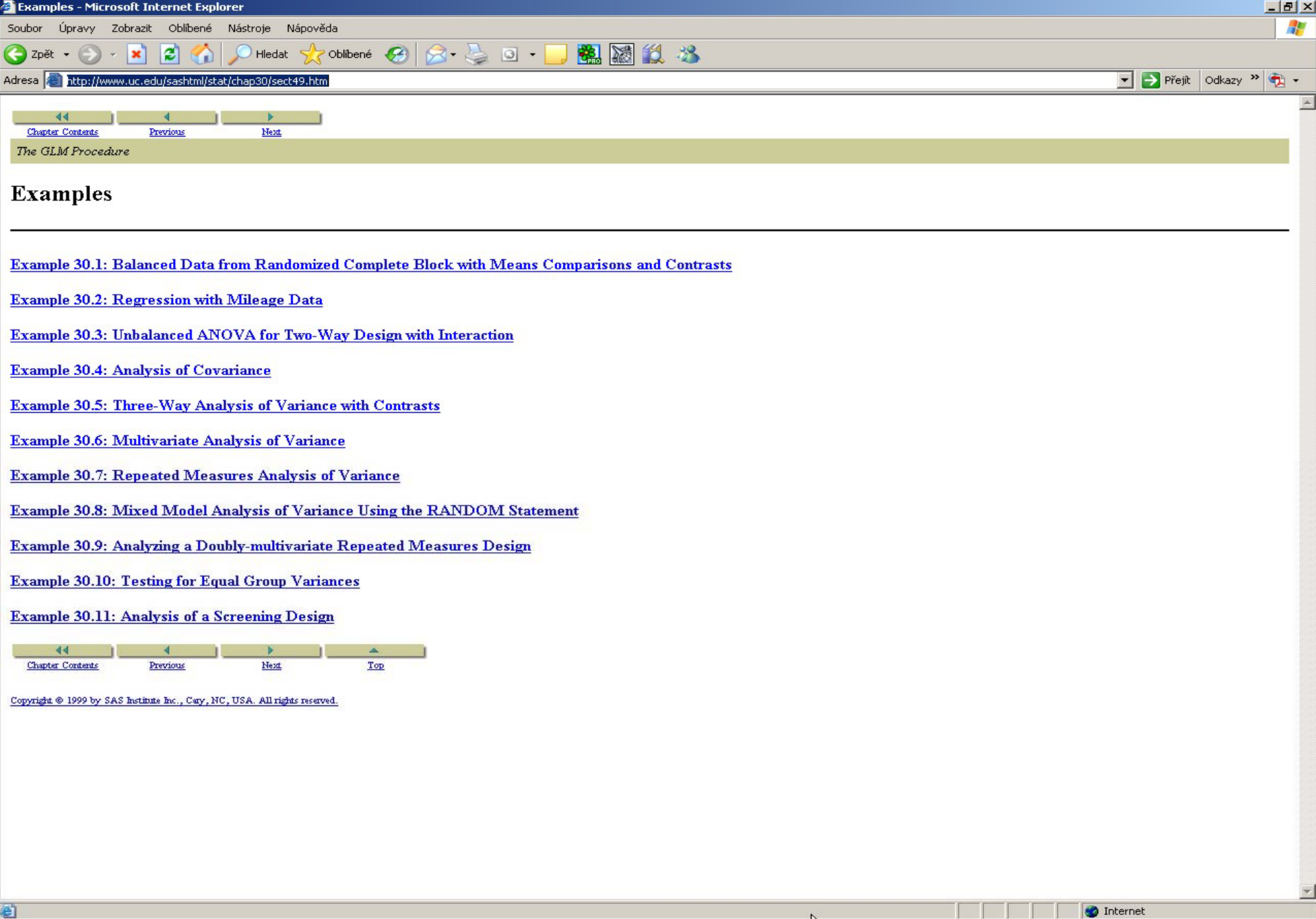
Legal notice: all software here can be freely used and incorporated into any system, for any purpose. It is required that the origin and authorship of any code taken from here is acknowledged in code and other documentation.

1. MDA-J: Multivariate Data Analysis - Java

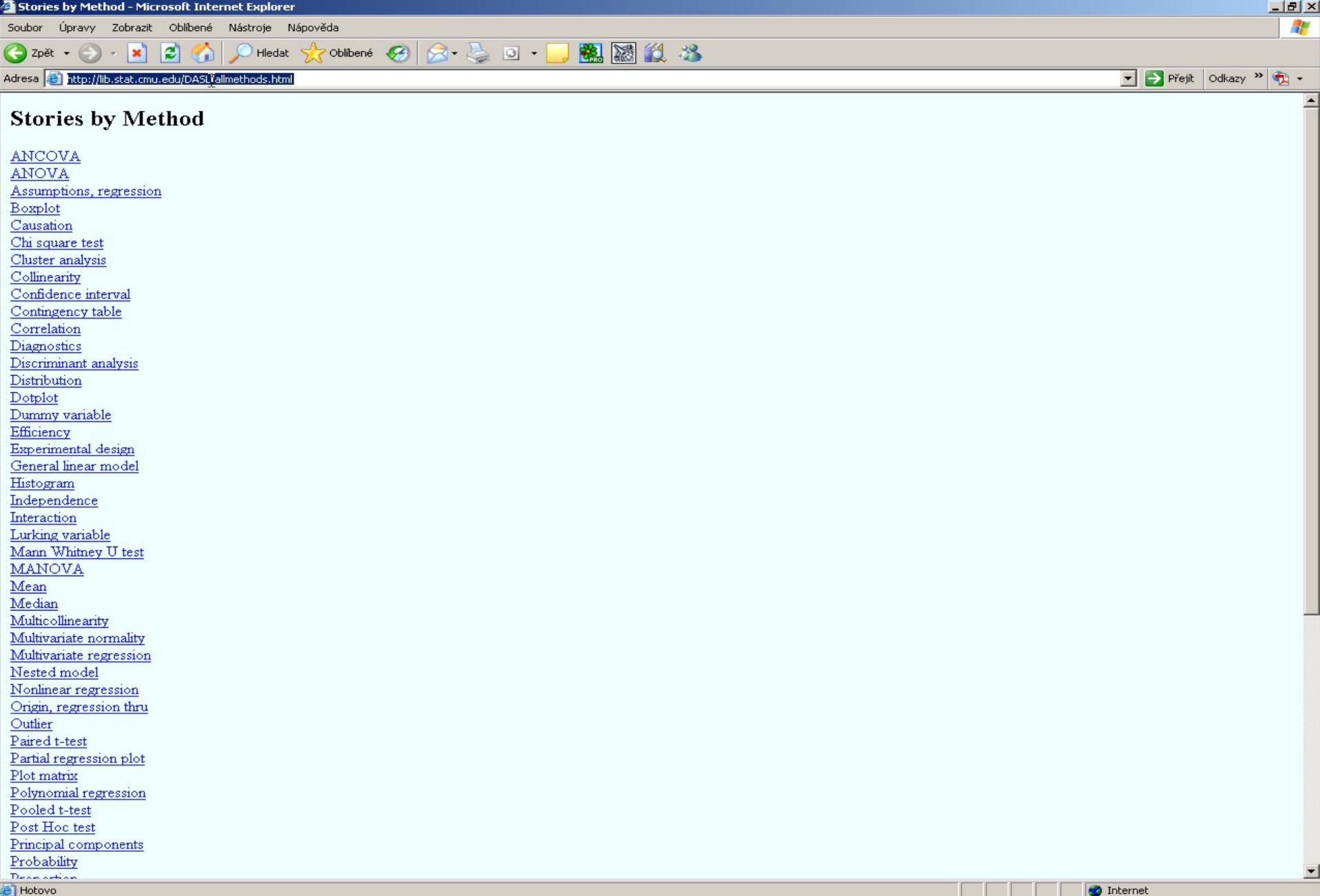
A new area has been set up for this code, which has its own address: see www.correspondances.info.

2. Multivariate Data Analysis Software as Java Applications

- [Doc:] [Documentation](#) on all programs which follow.
- [Sample data:] [Fisher iris data](#), iris.dat.
Format: row and column numbers (integer), followed by sequence of matrix data values (floating), read row-wise. The output obtained is available in each case below.
- [PCA:] [Principal Components Analysis on correlations](#), PCAcorr.java, which requires the JAMA class library. (See below for a link to JAMA.)
To run:
 - (i) Assume JAMA class library is in subdirectory Jama in current directory.
 - (ii) Compile: `javac PCAcorr.java`
General note: if your classpath variable is not set, you can run "javac" or "java" as: "`javac -classpath .`" and "`java -classpath .`".
 - (iii) Get syntax to standard output: `java PCAcorr`
 - (iv) Run on iris.dat: `java PCAcorr iris.dat > pcaoutput.txt`.
- Hierarchical clustering - background reading: A small text, but one with everything necessary on the most effective hierarchical clustering algorithms (i.e., using nearest neighbor chains, and/or reciprocal or mutual nearest neighbors) is F. Murtagh, *Multidimensional Clustering Algorithms*, Physica-Verlag, 1985. See in particular the table on page 68.
[HCL:] [Hierarchical Clustering](#), HCL.java



<http://www.uc.edu/sashtml/stat/chap30/sect49.htm>



<http://lib.stat.cmu.edu/DASL/allmethods.html>


The Data and Story Library - Microsoft Internet Explorer

Soubor Úpravy Zobrazit Oblíbené Nástroje Nápověda

Zpět Hledat Oblíbené

Adresa <http://lib.stat.cmu.edu/DASL/DataArchive.html> Přejít Odkazy

The Data and Story Library



DASL (pronounced "dazzle") is an online library of [datafiles](#) and [stories](#) that illustrate the use of basic statistics methods. We hope to provide data from a wide variety of topics so that statistics teachers can find real-world examples that will be interesting to their students. Use DASL's powerful search engine to locate the story or datafile of interest.

[Power Search](#)

[List all topics](#) [List all methods](#) [Data subjects](#)

[Help!](#) [Submit a story](#) [© Copyright](#)

Overview

Teachers use examples to illustrate statistics concepts. A good example can make a lesson on a particular statistics method vivid and relevant. DASL is designed to help teachers locate and identify datafiles for teaching. We hope that DASL will also serve as an archive for datasets from the statistics literature.

The archive contains two types of files, stories and datafiles. Each story applies a particular statistical method to a set of data. Each datafile has one or more associated stories. The data can be downloaded as a space- or tab-delimited table of text, easily read by most statistics programs.

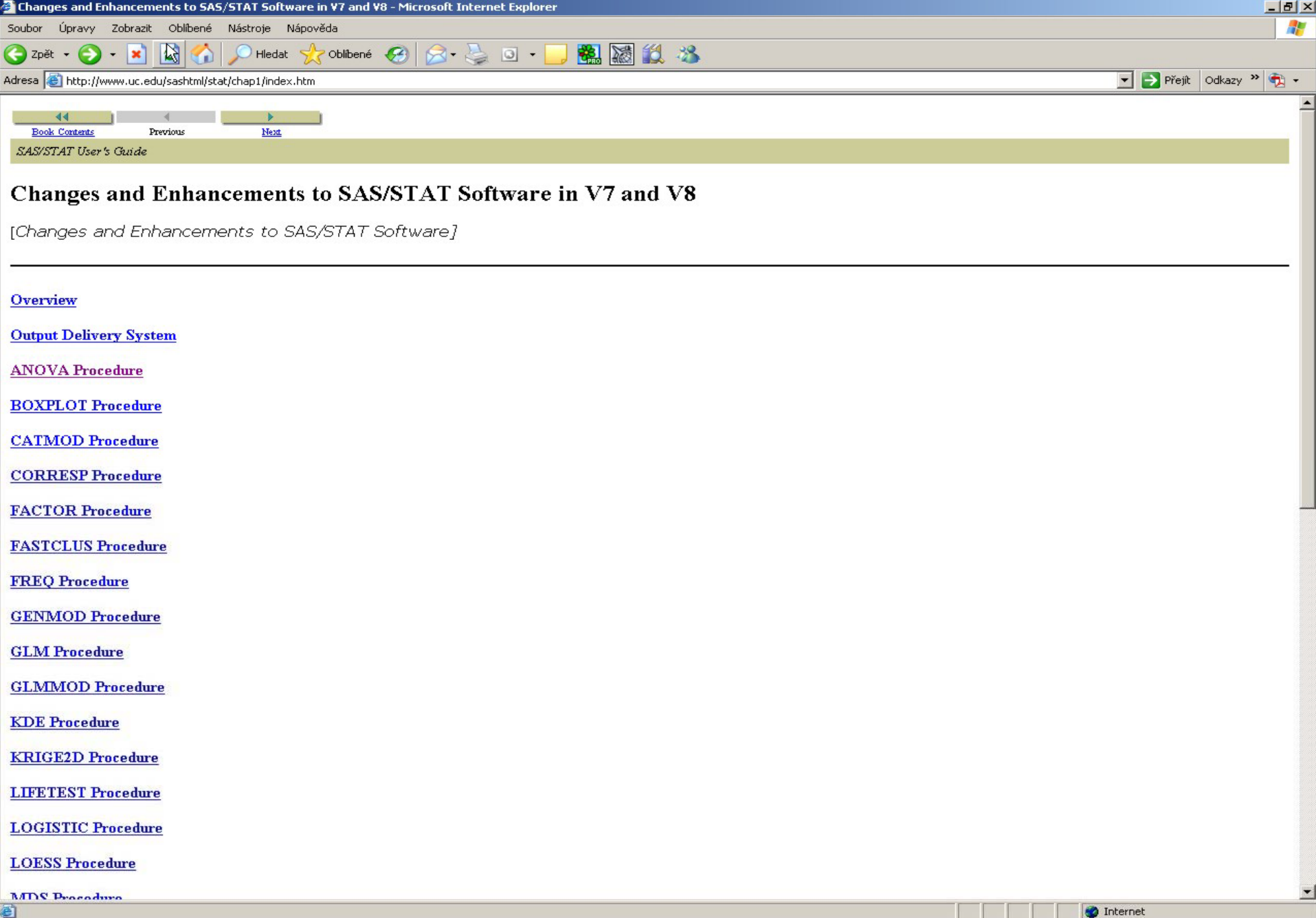
Stories are classified according to statistical methods and major topics of interest. Power search through DASL's stories and datafiles in five different ways.

1. **Title Search:** Searches through all of the story titles.
2. **Method Search:** Statistical methods such as regression or ANOVA.
3. **Topic Search:** Topics such as psychology or health.
4. **Datafile Subject Search:** Data subjects such as finance or astronomy.
5. **Full-text Search:** Searches through all of the stories and datafiles.

The first four specialized searches are slightly faster than the full-text search. Use these searches if you know what you want. The full-text search is helpful if you're interested in something more

Hotovo Internet

<http://lib.stat.cmu.edu/DASL/DataArchive.html>



<http://www.uc.edu/sashtml/stat/chap1/index.htm>

Portraits of Statisticians - Microsoft Internet Explorer

Soubor Úpravy Zobrazit Oblíbené Nástroje Nápověda

Zpět Hledat Oblíbené

Adresa <http://www.york.ac.uk/depts/maths/histstat/people/> Přejít Odkazy



Department of Mathematics

Home For Students Admissions Staff Research Events Info

PORTRAITS OF STATISTICIANS

[Click here for information about sources](#)

[Click here for information about the life and work of statisticians](#)

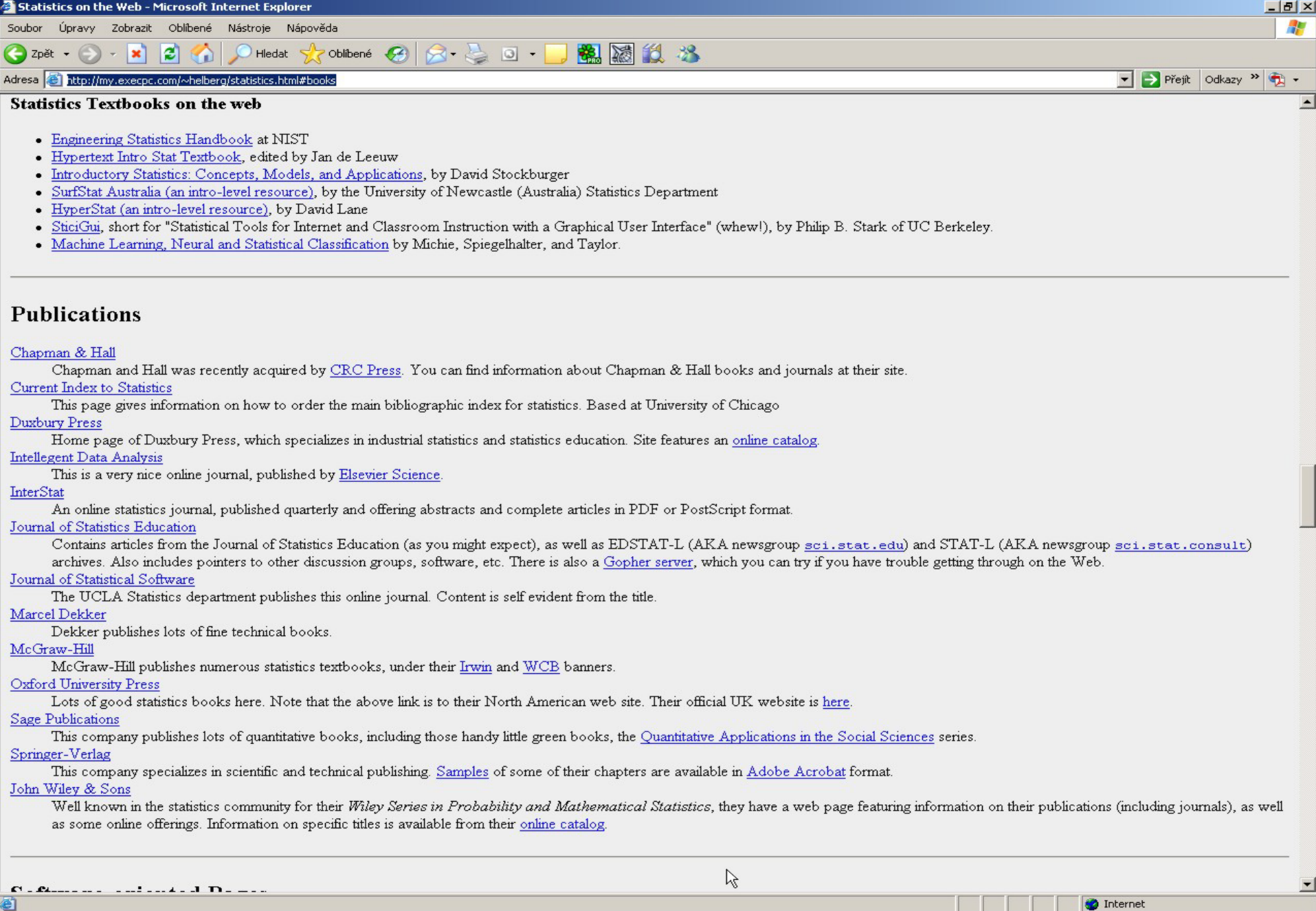
[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

Complementary information can be found at <http://members.aol.com/jayKplanr/images.htm>

1. [ABBE, Ernst](#) 1840-1905
2. [ADAMS, John Couch](#) 1819-1892
3. [ADRAIN, Robert](#) 1775-1843
4. [AIRY, Sir George Biddell](#) 1801-1892
5. [ATTCHISON, John](#)
6. [AITKEN, Alexander Craig](#) 1895-1967
7. [ANDERSON, Oskar Nikolayevich](#) 1887-1960 = ANDERSON, Oskar Johann Viktor
8. [ANDERSON, Roy Malcolm](#)
9. [ANDERSON, Theodore Wilbur](#) 1915- with TUKEY, John Wilder
10. [ANDERSON, Virgil](#) 1915-
11. [ANSCOMBE, Frank J](#) 1918-2001
12. [ARBUTHNOT, John](#) 1667-1735
13. [ARMITAGE, Peter](#) 1924-
14. [ARNAULD, Antoine](#) 1560-1619

Internet

<http://www.york.ac.uk/depts/maths/histstat/people/>



<http://my.execpc.com/~helberg/statistics.html#books>

CHAPTER 2 - Microsoft Internet Explorer

Soubor Úpravy Zobrazit Oblíbené Nástroje Nápověda

Zpět Hledat Oblíbené

Adresa <http://web1.iop.kcl.ac.uk/iop/Departments/BioComp/data%20sets.htm> Přejít Odkazy

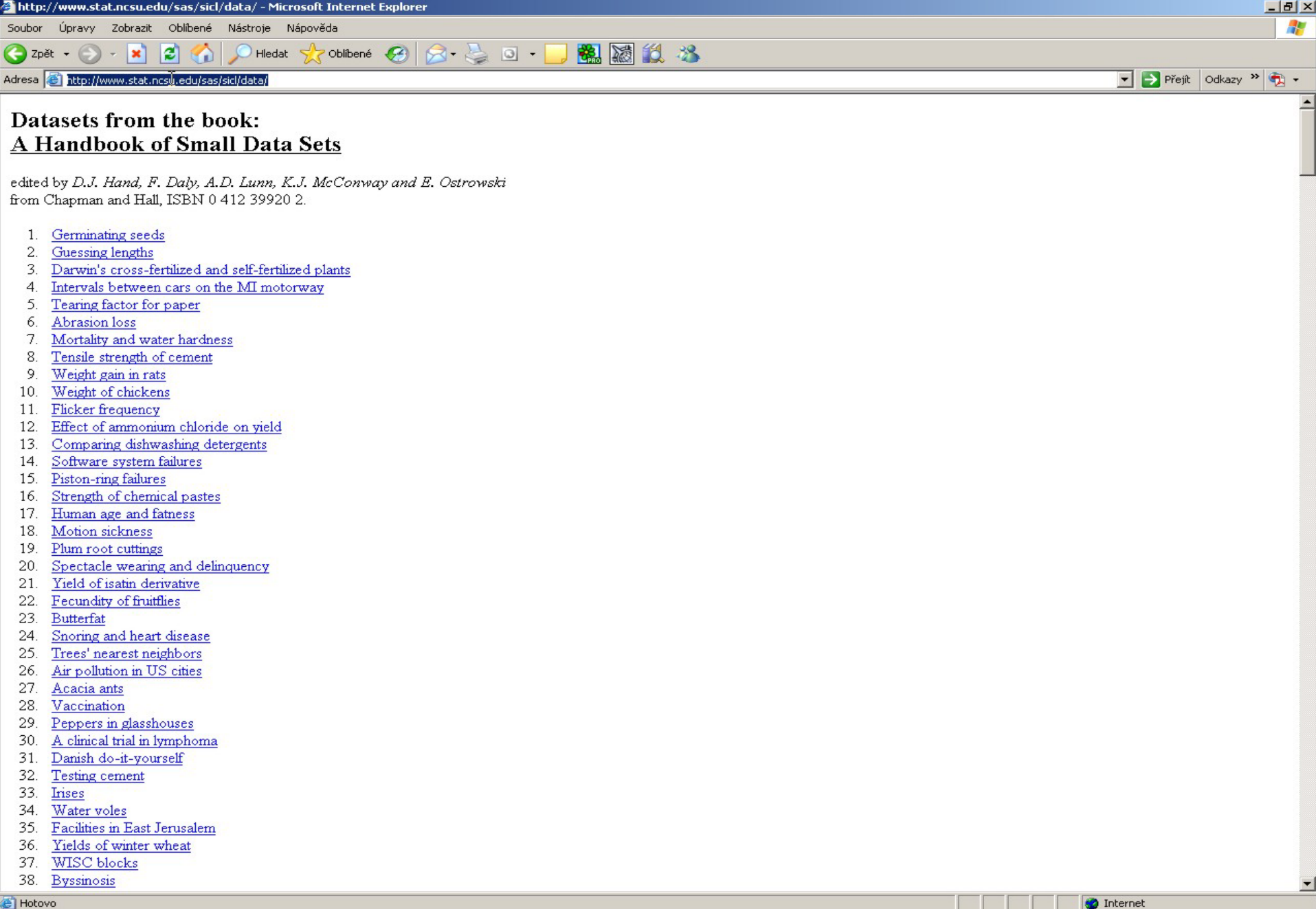
Data Sets Used in the Book

Load down all data sets as a zip-file: [data.zip](#) For model answers click on the exercise number

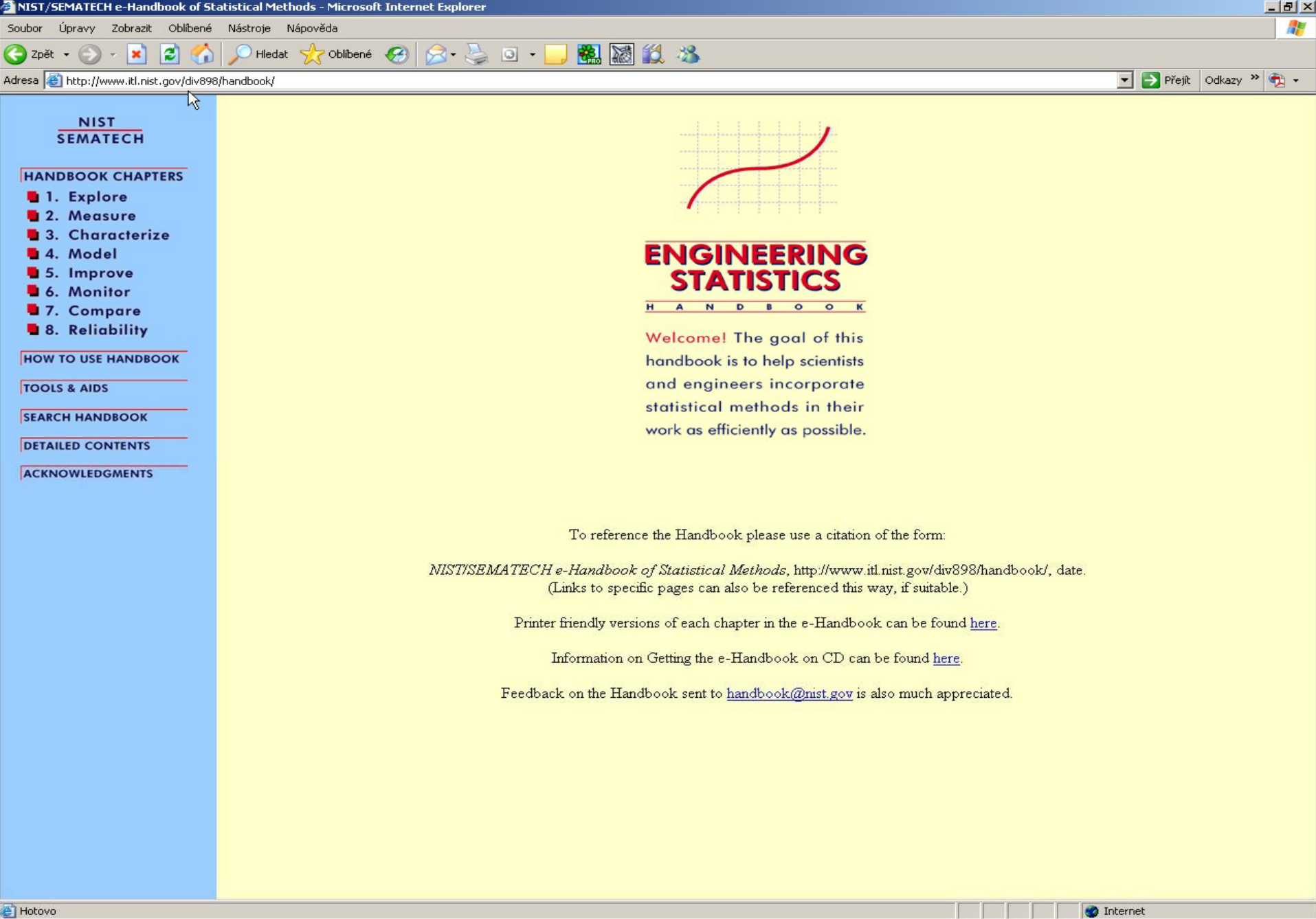
Data Set	Table	Description	Book cross-reference	Exercise number
Data21.sav	2.1	Lifespans of rats	2.3.1 and 3.3.2	2.4.2
Data22.sav	2.2	Ages at marriage in the U.S.	2.3.2 and 3.3.1	
Data23.sav	2.3	Guessing the width of a lecture hall		2.4.1
Data24.sav	2.4	Motor vehicle theft in the U.S.		2.4.3
Data25.sav	2.5	Anorexia Nervosa therapy		2.4.4
Data31.sav	3.1	Belief in the afterlife by gender	3.3.3	
Data32.sav	3.2	Incidence of suicidal feelings in a sample of psychotic and neurotic patients	3.3.4	
Data33.sav	3.3	Oral contraceptive use and blood clots	3.3.5	
Data34.sav	3.4	Alcohol and infant malformation	3.3.6	
Data35.sav	3.5	Death penalty verdict by defendant's race and victim's race	3.3.7	9.4.3
Data36.sav	3.6	Depersonalization and recovery from depression		3.4.1
Data37.sav	3.7	Drug treatment of psychiatric patients		3.4.2
Data38.sav	3.8	Tics and gender		3.4.3
Data39.sav	3.9	Hair color and eye color		3.4.4
Data41.sav	4.1	Cleaning cars	4.3.1	4.4.3 and 6.4.3
Data42.sav	4.2	Temperatures in America	4.3.2	
Data43.sav	4.4	Air pollution in the U.S.		4.4.1 and 11.4.1
Data44.sav	4.5	Body fat		4.4.2
Data51.sav	5.1	Fecundity of fruit flies	5.3.1	
Data52.sav	5.2	Finger tapping and caffeine consumption	5.3.2	
Data53.sav	5.3	Female social skills	5.3.3	5.4.3
Data54.sav	5.4	Cortisol levels in psychotics		5.4.1
Data55.sav	5.5	Cycling and knee-joint angles		5.4.2
Data61.sav	6.1	Effects of marijuana use	6.3.1	

Hotovo Internet

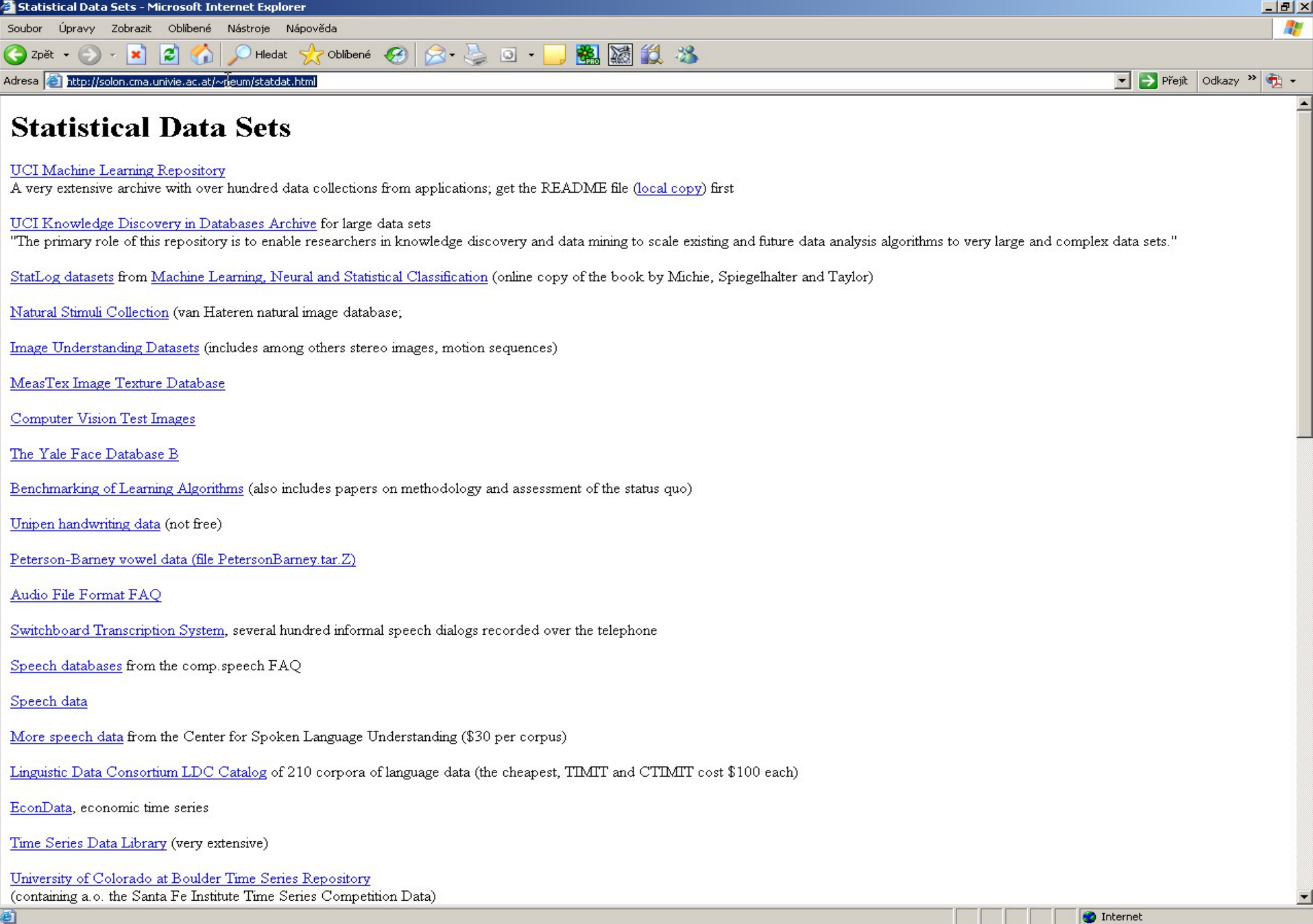
<http://web1.iop.kcl.ac.uk/iop/Departments/BioComp/data%20sets.htm>



<http://www.stat.ncsu.edu/sas/sicl/data/>

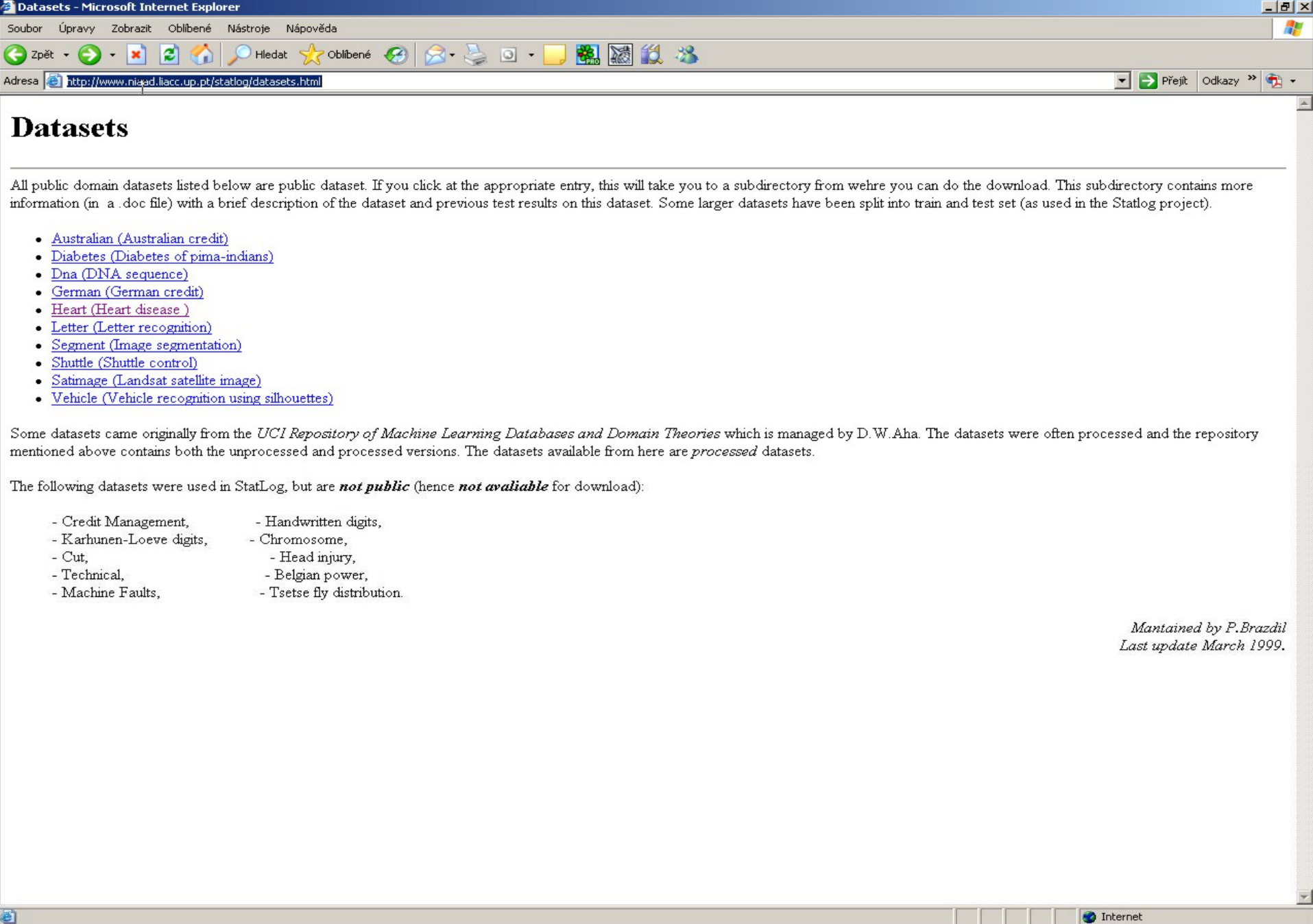


<http://www.itl.nist.gov/div898/handbook/>



<http://solon.cma.univie.ac.at/~neum/statdat.html>

 Internet



<http://www.niaad.liacc.up.pt/statlog/datasets.html>