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This monograph provides a micro-analytic description of the structure and communicative use of syntactic pivot constructions in German. Using the methodology of Conversation

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Analysis, this work shows that pivots emerge in interaction in response to local communicative needs. Exclusively found in spoken German, pivots allow a speaker to extend an utterance beyond a possible completion point in a syntactically and prosodically

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unobtrusive way. Speakers utilize this basic property to promote context-specific actions: managing boundaries of speakership, bridging sequential and topical junctures, and dealing with different types of interactional trouble. Through a close examination of

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syntactic pivots as an interactional resource, this work shows that spoken linguistic structures can only be fully understood if we acknowledge the temporality of language and view grammar as usage-based and negotiable. This book thus contributes to a

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growing body of research at the intersection of grammar and interaction.

ELLP ACK is a many faceted system for solving elliptic partial differential equations. It is a forerunner of the very high level, problem solving environments or

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expert systems that will become common in the next decade. While it is still far removed from the goals of the future, it is also far advanced compared to the Fortran library approach in common current use. Many people will find ELLP ACK an easy way to solve simple or

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moderately complex elliptic problems. Others will be able to solve really hard problems by digging a little deeper into ELLP ACK. ELLP ACK is a research tool for the study of numerical methods for solving elliptic problems. Its original purpose was for the evaluation and

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comparison of numerical software for elliptic problems. Simple examples of this use are given in Chapters 9-11. The general conclusion is that there are many ways to solve most elliptic problems, there are large differences in their efficiency and the most common ways



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are often less efficient, sometimes dramatically so. Mathematical Tools for Physicists is a unique collection of 18 carefully reviewed articles, each one written by a renowned expert working in the relevant field. The result is beneficial to both advanced

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students as well as scientists at work; the former will appreciate it as a comprehensive introduction, while the latter will use it as a ready reference. The contributions range from fundamental methods right up to the latest applications,

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including: -  
Algebraic/ analytic /  
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conservation laws -  
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modeling - Quantum  
computation The  
emphasis throughout  
is ensuring quick  
access to the  
information sought,  
and each article  
features: - an

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abstract - a detailed  
table of contents -  
continuous cross-  
referencing -  
references to the  
most relevant  
publications in the  
field, and -  
suggestions for  
further reading, both  
introductory as well  
as highly specialized.  
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provides easy access to the vast number of key words extending beyond the range of the headlines.

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Bulgaria, June 29 -  
July 3, 2004, Revised  
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A Problem Solving  
Approach for  
Mathematics  
Abelian Groups  
Computer Algebra in  
Scientific Computing  
*"This book is a  
grammar of  
Pendau, an  
Austronesian  
language spoken  
by around four  
thousand people*

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*in north-central  
Sulawesi,  
Indonesia.  
Pendau belongs  
to the Tomini-  
Tolitoli subgroup,  
and this book is  
the first  
comprehensive  
decription of any  
of these  
languages. The  
Tomini-Tolitoli*

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*languages are of interest to typologists in general and more specifically to Austronesianists, since the languages appear to be transitional between better known Philippine style languages and Indonesian*



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*style languages.  
Intricate rules of  
vowel harmony in  
the prefixes used  
to form verb  
stems are of  
particular  
interest. The  
grammar is very  
richly exemplified  
and covers a wide  
range of  
linguistic*

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*phenomena from phonetics and phonology through to cohesion and prominence in discourse as well as an analysis of the discourse structure of a number of different genres."*

*--Provided by*

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*Circuit*

*Simulation*

*Methods and*

*Algorithms*

*provides a step-*

*by-step*

*theoretical*

*consideration of*

*methods,*

*techniques, and*

*algorithms in an*

*easy-to-*

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*understand  
format. Many  
illustrations  
explain more  
difficult problems  
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instructive  
circuits. The book  
works on three  
levels: The  
simulator-user  
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experiments  
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and OPTIMA.  
Only basic  
mathematical  
knowledge, such  
as matrix  
algebra,  
derivatives, and*

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*integrals, is  
presumed.*

*Matrix*

*algorithms are at  
the core of  
scientific  
computing and  
are indispensable  
tools in most  
applications in  
engineering. This  
book offers a  
comprehensive*

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*and up-to-date  
treatment of  
modern methods  
in matrix  
computation. It  
uses a unified  
approach to  
direct and  
iterative methods  
for linear  
systems, least  
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Methods in  
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*scientific  
computing and  
applied technical  
areas at  
advanced  
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and graduate  
level. A large  
bibliography is  
provided, which  
includes both  
historical and  
review papers as*

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*well as recent  
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book useful also  
as a reference  
and guide to  
further study and  
research work.  
A Grammar of the  
Pendau Language  
of Central  
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Era and How to  
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programming  
language's  
strength as a Web  
development tool,  
covering syntax,  
data types, built-  
ins, the Python

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standard module library, and real world examples. Daoism is the oldest indigenous philosophic-spiritual tradition of China and one of the most ancient of the world's spiritual structures. The name Daoism

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comes from the term dao, which means a "way" or a "road" through the field or woods to one's village. It is also means the "way" to do something, such as how a master craftsman carves wood, makes a

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bell, or even  
butchers an ox.  
But dao is also a  
nominative in the  
history of Daoism,  
referring to the  
energizing process  
that permeates  
and animates all of  
reality and moves  
it along. However,  
both text and



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practice in this tradition insist that dao itself cannot be described in words; it is not God in the sense of Western philosophy or religion. Daoism has no supreme being, even if there is an

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extensive grammar about nominally self-conscious entities and powers for which the Chinese use the word "spirit" (shen). For example, the highest powers of Daoism are variously called

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Taishang Laojun  
(the deified Laozi),  
the Celestial  
Worthy of  
Primordial  
Beginning  
(Yuanshi tianzun),  
the Jade Emperor  
(Yuhuang  
Shangdi), or the  
Perfected Warrior  
(Zhenwu). But

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these are  
expressions of dao  
in specific shen;  
they are not  
identical to Dao,  
except in the most  
unique case—when  
Laozi, the putative  
founder of Daoism  
and author of its  
major work,  
Daodejing, is said

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to be one with the  
dao. Historical  
Dictionary of  
Daoism contains a  
chronology, an  
introduction,  
appendixes, an  
extensive  
bibliography, and  
more than 400  
cross-referenced  
entries related to

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the Chinese belief and worldview known as Daoism, including dozens of Daoist terms, names, and practices. This book is an excellent resource for students, researchers, and anyone wanting to

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know more about  
Daoism.

Start-Ups, Pivots  
and Pop-Ups is a  
must read for  
anyone with a  
business idea and  
the desire to be  
successful. It gives  
the reader the  
skills and  
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survive in today's  
innovation and ent  
repreneurial-  
focused world.

This book is about  
starting a  
business. It's  
about putting your  
toe in the  
entrepreneurial  
water - perhaps  
through doing a



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short term  
business gig or a  
pop-up business -  
and then seeing  
what happens. It  
shows you how to  
listen to the  
customer and work  
out why failures  
may happen, and  
when they do,  
you'll learn how to

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deal with them and create a new business that is robust and ready to grow. Start-Ups, Pivots and Pop-Ups shows you the best ways of starting, testing and growing a business. It shares the stories,

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experience and insights of those who've done it, and explains how to innovate, trial, refine and succeed. Even if your business idea struggles, you'll find out how to learn so much that you'll pivot your

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business, try again  
and then win big  
time. You'll learn  
from a range of  
organizations  
including abnormal  
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Dog beer,  
Cambridge  
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perspective and  
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expands and  
updates the  
coverage of the  
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the original material. Two new chapters treat symmetric indefinite systems and skew-symmetric systems, and nonlinear systems and Newton's method. Twelve new sections include

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coverage of  
additional error  
bounds for  
Gaussian  
elimination, rank  
revealing LU  
factorizations,  
weighted and  
constrained least  
squares  
problems, and the  
fused multiply-  
add operation

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found on some  
modern computer  
architectures.

Numerical  
analysis deals  
with the  
development and  
analysis of  
algorithms for  
scientific  
computing, and is  
in itself a very  
important part of

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mathematics,  
which has  
become more and  
more prevalent  
across the  
mathematical  
spectrum. This  
book is an  
introduction to  
numerical  
methods for  
solving linear and  
nonlinear

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systems of equations as well as ordinary and partial differential equations, and for approximating curves, functions, and integrals.

This book constitutes the thoroughly refereed post-proceedings of

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the Second  
International  
Conference on  
Numerical  
Analysis and Its  
Applications, NAA  
2000, held in  
Rousse, Bulgaria  
in June 2000. The  
90 revised papers  
presented were  
carefully selected  
for inclusion in

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the book during the two rounds of inspection and reviewing. All current aspects of numerical analysis are addressed. Among the application fields covered are computational sciences and

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engineering,  
chemistry,  
physics,  
economics,  
simulation, etc.

Introduction To  
The Analysis Of  
Algorithms, An  
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Chinese  
Maple and  
Mathematica

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fundamental  
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are presented in  
this book. Each  
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unique insight into**

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research focusing  
on functional  
equations, stability  
theory,  
approximation  
theory, inequalities,  
nonlinear  
functional analysis,  
and calculus of  
variations with  
applications to**

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theory. Topics  
include: Fixed  
point theory Fixed-  
circle theory  
Coupled fixed  
points Nonlinear  
duality in Banach  
spaces Jensen's  
integral inequality  
and applications  
Nonlinear**

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equations**

**Nonlinear integro-  
differential  
equations**

**Quasiconvexity,  
Stability of a  
Cauchy-Jensen**

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Solitons Quadratic  
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filled with  
examples that  
illustrate concepts.  
Mathematical**



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**Tools for  
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Wiley & Sons

**In the history of  
mathematics there  
are many situations  
in which cal-  
culations were  
performed  
incorrectly for  
important practical  
applications. Let us**

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**look at some  
examples, the  
history of  
computing the  
number ? began in  
Egypt and Babylon  
about 2000 years  
BC, since then  
many  
mathematicians  
have calculated ?  
(e. g. , Archimedes,**

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**Ptolemy, Vi`ete, etc. ). The first formula for computing decimal digits of  $\pi$  was discovered by J. Machin (in 1706), who was the first to correctly compute 100 digits of  $\pi$ . Then many people used his method, e. g. , W.**

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**Shanks calculated  $\pi$  with 707 digits (within 15 years), although due to mistakes only the first 527 were correct. For the next examples, we can mention the history of computing the fine-structure constant**

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**? (that was ?rst discovered by A. Sommerfeld), and the mathematical tables, exact - lutions, and formulas, published in many mathematical textbooks, were not veri?ed rigorously [25]. These errors**

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**could have a large effect on results obtained by engineers. But sometimes, the solution of such problems required such technology that was not available at that time. In modern mathematics there**

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**exist computers  
that can perform  
various  
mathematical  
operations for  
which humans are  
incapable.  
Therefore the  
computers can be  
used to verify the  
results obtained by  
humans, to**

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**discovery new  
results, to - proveth  
eresultsthatahuma  
ncanobtainwithout  
anytechnology.**

**With respectto our  
example of  
computing?, we can  
mention that  
recently (in 2002)**

**Y. Kanada, Y.**

**Ushiro, H. Kuroda,**



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**and M.**

**A Clause-Pivot**

**Theoretical**

**Approach**

**Accuracy and**

**Stability of**

**Numerical**

**Algorithms**

**Home Automation**

**For Dummies**

**Historical**

**Dictionary of**

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***students,***

***researchers, and***

***engineers in***

***mathematics,***

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understanding of  
current research  
problems and  
theories in pure  
and applied  
research.*

*The Ninth  
International  
Conference on  
Austronesian  
Linguistics and  
the Fifth*

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***International  
Conference on  
Oceanic  
Linguistics were  
both held at The  
Australian  
National  
University in  
Canberra during  
January 2002.  
Rather than  
publish a single  
very diverse***

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*collection of  
conference  
papers, the  
organisers  
favoured a series  
of smaller  
compilations on  
specific topics.  
One such volume,  
on Austronesian  
historical  
phonology, has  
already been*



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*published by  
Pacific  
Linguistics as  
Issues in  
Austronesian  
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phonology by  
John Lynch. The  
present volume  
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another such  
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***introduction by  
the editors and  
ten papers on  
voice in  
Austronesian  
languages which  
provide both  
fresh data and  
some new  
perspectives on  
old problems. The  
papers touch on  
the many faces of***

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voice systems,  
ranging  
geographically  
from Teng on  
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voice in  
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of voice like  
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at an aspect of  
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*essential to  
Chinese  
grammar, from  
words and  
phrases, to  
complex  
sentences and  
sentence groups.  
It addresses such  
controversial  
issues as word  
class  
identification, the*



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***distinction  
between words  
and phrases, and  
between clauses  
and complex  
sentences. The  
book also shows,  
through a wealth  
of examples, how  
the clause-pivot  
theory and the  
double triangle  
approach can be***

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*applied  
productively in  
grammatical  
studies. Modern  
Chinese  
Grammar: A  
Clause-Pivot  
Theoretical  
Approach is an  
essential  
purchase for  
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both computer  
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mathematicians  
with interest  
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expositions on  
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as Greedy,  
Dynamic  
Programming and  
Divide &  
Conquer, the*

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*book explores  
two classes of  
algorithms that  
are often  
overlooked in  
introductory  
textbooks:  
Randomised and  
Online  
algorithms –  
with emphasis  
placed on the  
algorithm*



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*itself. The book also covers algorithms in Linear Algebra, and the foundations of Computation. The coverage of Randomized and Online algorithms is timely: the*

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*former have  
become  
ubiquitous due  
to the  
emergence of  
cryptography,  
while the  
latter are  
essential in  
numerous fields  
as diverse as  
operating  
systems and*

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*stock market  
predictions.  
While being  
relatively  
short to ensure  
the  
essentiality of  
content, a  
strong focus  
has been placed  
on self-  
containment,  
introducing the*

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*Preliminaries*

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ithms; Greedy; Dy  
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ng; Online; Rando  
mized; Loop Inva  
riant Review: 0*

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concepts;  
describes  
important  
equations,  
laws, and  
functions;  
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Companion to  
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