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1. Foreword

During the last years since 2003 I have written hundreds or even thousands of academic, business and commentary notes in the forms of papers, presentation slides, reports, booklets and books in the areas such as solar physics, thermodynamics, fluid dynamics, IT (incl cryptography), VLSI chip and mathematics, among them, the selected about 200+ pieces are of quite comprehensive and indepth nature of review and research. However, most of them are in form of drafts.

I did not publish my academic writing results because most of them are just my study aides or daily records, with exception of the business reports that are specifically prepared for a special purpose. Therefore they are mostly not written with the purpose of publication in mind. And my writing is to large extent only my hobby, for my own amusement, not for showing the world how capable I am. However, they are not necessary meant to be in low quality and just on contrary, they can be compatible with most published papers on the market.

With the exception of my master's thesis in 1989, all of my writings are dated back from 2003. Therefore what I have written before that and after 1978 when I first attended the university at the age of 15, are not known and are all lost. They might be yet another great number as well.

What will be coming up after this crazy period of writing ?

Well, my writing will certainly no more spread over so large a spectrum as before. I might still write some business reports, but only on requests of my clients, therefore that is unpredictable. I might still write a large number of essays about my life and the social events happening here and there and which will eventually be part of my autobiography. Apart from this, my overall writing will be slowed down or even suspended for the moment, because of my poor economic status. For during the last decade I did not earn money in lieu of my researches and my purse is dried up, therefore I need to fill it up and hence for some months or even years from now I might shift to business and leave little time to studies – an hour a day at most.

Nevertheless my studies, researches and writing will continue and will never stop and hence I will work on the following areas: New generations of IC technologies, with first priority of quantum computer.

I will write a few serious and useful essays in **quantum computer**, which I name as **qumputer**. The largest writing project by far, will be my thousands of pages of my **autobiography**, as well as a **biography of my mother**, with its writing delayed for I don't know how many years.

All books with a few exception are written in US English: a few in German and several others in Chinese.

Note that all page number calculations are rough estimation only.

2. ACADEMIC WRITING

(2007 - present)

2.1. CHIP TECNOLOGY

New Generation of Information Processing and Computing

Quantum chips	pp288
3D ICs	pp218
Membrane chips	pp33
Nano chips	pp82
Neural computing	pp36

Something was also prepared for a large scope of new chip technologies, including but not limited to the following:

- Bio DNA
- Bio cellular
- Biocomputing
- Carbon nanotube
- Dynamical systems computing
- Gallium
- Genetic
- Germanium
- Graphene
- Indium
- Molecular
- Molybdenium
- Nano deep submicron
- Photonic
 - Plasmonics
- Resonant tunneling
- Reversible computing
- Single electron
- Strained silicon
- Superconducting
- Spin Based Chips

Chip Design

SATELLITE BROADBAND INTERNET (Satnet) MODEM - Part One: Modulator IP Core pp250

Chip design study notes - electronic theories and technologies	pp62
Chip design study notes - general	pp100
Chip design study notes – physical design	pp89
Chip design study notes – routing	pp139
Chip design study notes – FPGA	pp56

2.2. GRAPH THEORY

On the part of graph theory for VLSI design, I have written some papers on graph theory for VLSI routing/detailed routing/channel routing, hypergraph modeling for FPGA design, graph theory for advanced chip design particularly

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quantum computing, graph partitioning for VLSI design, graph embedding for VLSI (particularly quantum circuits) design, graph theory for 3d VLSI design etc. I have also prepared for several pure graph theoretic essays.

Pure & Applied Graph Theories for IC Design

Graph Theory – an Introduction	pp52
TSP-Traveling Salesman Problems, a comprehensive review	pp67
Graph actions/operations	pp21
Graph/hypergraph clustering	pp60

Graph / Hypergrah features / instances / variables / parameters / Relations	
Graph/Hypergraph File Format	pp8
Graph function / components / characteristics	pp14
Graph partitioning	pp330
Graph-to-hypergraph transformation	pp20
Graph types	p269
Tree types	p112
Graph/hypergraph modelling for VLSI design	pp40
Graph theory for reconfigurable computing – Part I Introduction	pp37
Graph Theory for Reconfigurable Computing – Part II: Control & Data Flow Graphs	pp77

Hypergraph

Hypergraph types	pp126
Hypergraph Models for FPGA design	pp58

Combinatorics & Operational Optimizations

Graph Theory and the Worldwide Web

Graph theory and the Word Wide Web – Some Special Topics pp250 (topics include graph theory for the Internet, search engines algorithms, Google Maps and other Internet map systems, peer-to-peer(p2p) networking and the TOR router)

pp49

2.3. MATHEMATICS – EARLIER RESEARCHES

Abstract Algebra – Encyclopedia	pp41
Boolean Algebra	pp53
Complex Analysis	pp56
Computational Analysis	pp135
Number Theory – a Review	pp19

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Applied Number Theory	pp120
Primality Testing – Comprehensive Review	pp135
The AKS primality test algorithm – a review and improvement	pp196
Integer Factorization	pp45
Random Number Generation	pp55
Functional Analysis	pp255
Differential and integral equations & mathematical physical equations	pp76
Computational Geometry	pp33
Probability and statistics	pp55
Ergodic Theory	pp43
Fast Fourier Transform	pp322
Cryptography	pp40
Quantum Cryptography	pp35
Postquantum Cryptography	pp75
Information technology	pp90
Computer Algorithm	pp160
Computer Complexity	pp230
Math for Search Engines	pp210
Math in Music Composition	pp66
Math formula tools	pp280
2.4. FLUID DYNAMICS	
Nano fluid dynamics: Introduction, Review and Tutorial	pp450
Computational Fluiddynamics – an Introduction	pp138
Yachts Hydrodynamics	pp26
2.5. SOLAR RELATED RESEARCHES	
有关太阳的一切	pp84
About the Sun	pp400
Solar energy fundamentals	pp450
Solar thermal applications	pp270
Solar phtovoltaics – wafer, cells, modules, BOS etc	pp250
Space PV	pp165
Solar power systems	pp70
Other Solar Technologies	**

(thermoionic power generation / daylighting / litrospheres / photoluminescence / solar hydrogen / solar to liquid fuel / solar photosynthesis) pp40

warming, Solar radiation and vegetation etc)	
Solar radiation measurement technology	pp 850
Solar Physics – an Introduction and Review	pp70
Solar Models (SSM – Standard Solar Models)	pp70
The Chromosphere	pp10
The Corona	pp30
The Photosphere	pp20
Solar prominences	pp10
Solar magnetic field	pp8
Solar Flares	pp25
Helioseismology	pp11
Solar neutrino problem	pp7
Sunspots	pp26
Solar wind	pp30
Solar aircrafts	pp 2000
Solar airships	pp 550
Solar sails / solar ion propulsion for far space ventures	pp180
Photoaging	pp170
Solar health and therapy	pp245
2.6. THERMODYNAMICS	
Thermodynamics Terminology	pp32
Thermodynamics databases	pp30
Thermodynamics software	рр60
TT	50

pp50

(Spectral radiation & the atmosphere, Solar radiation and the earth system, Solar radiation & climate change / global

Introduction to Thermodynamics	pp140
Modern thermodynamics- a comprehensive review, categorization and listing	pp267
Entropy	pp60
Equilibrium Thermodynamics	pp28
Non-Equilibrium & Non-linear Thermodynamics	pp22
(Irreversible) Endoreversible Thermodynamics	pp28
Dissipative structure theory	pp36
Finite Time Thermodynamics	pp8
Negative Energy Spectrum Thermodynamics	pp9
Advanced Thermodynamics and Statistical Physics	pp551
Physical chemistry	pp50
Mesoscopic Thermodynamics	pp15
Nano-thermodynamics - an overview	pp150
Quantum Thermodynamics	pp8

Thermodynamics events

Cryogenic thermodynamics pp26 Computational Thermodynamics pp20 Thermodynamics of Polycomponent System pp77 Thermodynamics of Porous Media pp10 Surface thermodynamics of Porous Media pp10 Surface thermodynamics of interfaces pp37 Network Thermodynamics pp9 Liquid & Process Thermodynamics pp8 Thermodynamics of Solutions/Solvation Thermodynamics pp8 Thermodynamics of Solutions/Solvation Thermodynamics pp10 Engineering Thermodynamics pp130 Thermodynamics of Chemical Equilibrium pp55 Thermodynamics of Chemical Equilibrium pp55 Thermodynamics of Materials pp28 Thermodynamics of Crystalization pp12 Metallurgical Thermodynamics pp33 Thermodynamics of Aloys pp25 Phase Diagram of Aloys and their Thermodynamics pp279 Gravitational Thermodynamics pp100 Thermodynamics of solar corona heating mechanism pp279 Gravitational Thermodynamics pp100 Thermodynamics of solar wind pp30 Thermodynamics of solar corona heating mechanism pp25 Phase Diagram of Aloys and their Thermodynamics pp100 Thermodynamics of the cosmos (thermodynamics of the universe	Mark Chen	
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Biological thermodynamics		pp150
Thermodynamics of Organisms		pp21
Thermodynamics and health		pp90
Thermodynamics of cancers (oncological thermodynamics)	nics / thermodynamic oncology / carcinothe	
Hierarchical Thermodynamics	mes / mermodynamic oneology / earemoure	-
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Thermodynamics of Pharmaceuticals		pp15
		pp790
Thermodynamics of economics		pp310
Thermoeconomics / Exergoeconomics		рр60
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Thermodynamics of Business Management		pp12
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Thermodynamics in Literatures		pp14
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Überblick über deutsche Literatur		pp580
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Scientific research methodology		pp135
My science questions and proposals		pp28
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The greatest scientists China and the world		pp100
Mathematicians		pp89
Graph Theorists		pp425
Algebraists		pp16
Number Theorists		pp234
Thermodynamicists		pp220
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Scientists in Biothermodynamics		pp220 pp465
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Scientists in Oncology and Oncological Thermodynam	1108	pp550
Nano Thermal Scientists		pp31
NanoFluidics Researchers		pp70
Solar Radiation Scientists		pp70

SSM (Standard Solar Models) Scientists index

pp350

2.10.MY THESES

My Master thesis (1989): Studies on SO2 Pollution Control during coal combustion pp100

3. APPLICATION WRITING

(2003-present)

3.1. IT RELATED

Software reverse engineering Network security or hacking technologies	
Computer and OS Introduction	pp90
Computer and OS trouble shooting records and guides	pp375
Internet protocols	pp50
Linux systems	pp120
Programming guides	pp350
Databases	pp252
Servers	pp320
Online communications	pp250
Email security	pp210
Browser Security	pp35
Online multimedia	pp350
GoogleMaps Introduction	pp110
WAP – Wireless Application Protocols	pp100
Website development guides	pp240
Cryptology review	pp76
Cryptological platforms	pp50
CryptoChina Report	pp100
Internet freedom – a series of Internet access technology guides	pp2300
VPN review and technologies	pp410
Industrial software incl solar and windpower software	pp76

3.2. LANGUAGES

Translation & Localization Technologies pp63

4. **BUSINESS WRITING**

(2003-2009)

During my last years of business activities, I have been writing hundreds of consulting reports in several fields for my international clients. Here are a brief summarization:

4.1. AVIATION

Private space development	pp 340
Flying cars or Personal Air Vehicle	pp 260
Business aircraft manufacturers in China	pp360
Business aircraft manufacturers in the world	pp690
Business and general aviation China monthly and quarterly reports	

4.2. ELECTRICITY POWER BUSINESS

China power monthly reports 12 issues, total	pp1200
China and world power generation equipment and systems	pp850
(steam turbines, gas turbines, gensets, hydroturbines, windturbines, etc)	

4.3. HEALTHCARE DEVELOPMENT PROJECT WENZHOU

China Healthcare Development Report and Wenzhou New Hospital Development Project Plan The emergency medicine status report	
4.4. LUXURIOUS MARKET	
Luxurious Market China	pp150
4.5. REAL ESTATE DEVELOPMENT	
World and China Real Estate Development Industry Directory and Status Report	pp1500
4.6. SOLAR ENERGY BUSINESS	
China solar monthly reports 36 issues, total	pp 3600
4.7. THERMAL TECHNOLOGIES	
Thermodynamic optimization	pp340
Water heater thermodynamic optimization	pp100
Water heater safety guides	pp184
China Instant Electric Water Heater Technologies & Products	pp10
Home Energy /Power Management System	pp14
Thermal technology company directory	pp410

4.8. WEALTHY REPORT

The richest people in the world – a comprehensive compilation	pp1200
4.9. WEBMARKETING	
Web marketing practical guide	pp100
4.10.WINDFALL ANALYSIS	
Windfall database China	pp2500

4.11.WORLD CAPITAL MARKETS

World Capital Markets & Investment Consulting	pp80
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4.12.YACHTS INDUSTRY

China yacht builders	pp 310
World yacht builders and other services	pp 810
Yacht China Monthly Reports	

5. OTHERS

(2006 - present))

Mother		under preparation
Autobiography	several thousands of pages in total	to be prepared a decade later
About prayer		pp160
About religion		pp150
About SDA – the Seventh Day A	Adventist Church	pp35
America politics		
China's Internet		
China politics		pp42
Exodus why?		
Good Samaritan		
Human rights in China		
Lost opportunities, or rather, lost	: life	
Market politics and a new China		
My church experiences		
My dream China		
My experiences with PhD applic	ations at ZD University	
My testimony for Jesus		
My zigzag road to faith		
Persecution		
Taxation		
The Hukou problems		
This is Hangzhou		

This is Huzhou My this 13 years

6. WEBSITES

In addition to the above writing, I have also developed many – perhaps a hundred - websites for various purposes. You may refer to the listing for a quick review. A website is also a kind of authoring and research, similar to a paper or a reporting.

7. THE EARLY DAYS (Before 2003)

There might be another hundreds of essays, articles, papers, presentations or books, I can safely say, but the above is far than enough, therefore I would not bother to look for them, at least for now. A few years later, when I will resume my story, I may try to pick them up, wait a bit and be patient.....