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#	Rev	Title	Comment
		We are transitioning from society as we know it into an order that has not yet defined itself. Those who own and control their shelter, water, food and energy **A. Can minimize dependency upon the surrounding economics and politics.** **B. Can help rebuild the world around them.**	
		STRUCTURES	
01010		**Any-stick dome**	A dome from junk
01020		**Durable covering** cheap, durable	For covering structures and underground membranes
01040		**Bolt-together frames**	Basics of building and covering bolt-together frames
01050		**Dome, 10' diameter on posts**	This one used for bathing at an off grid encampment
01080		**Dome, 16'8" diameter** 210 sq.ft.	Economical, versatile, reusable frame can be built in a day
01200		**Parabolic domes**	Width and height can be increased indefinitely
01220		**Dome, parabolic 20' x 10' high**	I use it for my winter backyard studio
01330		**Parabolic, 28'** 14' high, 615 sq. ft.	Central structure at an off-grid encampment
01300		**Low profile domes** 24 ft dia.,	450 sq.ft; height=radius/2
01360		**30 foot low profile dome** 707 sq.ft	Calculations plus assembly notes
01365		**Low Cost Shelter Project**	Combine text with 30 foot low profile dome
01210		**Dome Worksheet**	Add radius and chord factors to calculate any size dome
01375		**Wired tubes** Minimum tooling	Build structures out of tube & wire with hacksaw & pliers
		Wire structures	contents
01510		**7'6" wire shelter frame** ht.=rad./2	Dome frame weighs 8.5 lbs. Complete frame=24 lbs.
01520		**The Cozy** 7-1/2 diameter shelter	Includes a stove built into the floor
01630		**Oval wire dome, 10x20x2.5**	A complex disaster – but an interesting story
		Other shapes	
01660		**Hyperboloid**	A tubular structure with a gracefully varying diameter
01690		**Hyperbolic paraboloid**	A strong and graceful roof structure
01700		**Trihyperbolicparaboloid**	Hexagonal roof form supported on three posts
01810		**Decks from scraps**	Use short pieces of recycled material to span large areas
01830		**Hex8:** Wooden structure	Hexagonal office space with sleeping loft, 8 ft. diameter
01840		**Hex12** Wooden structure	Hexagonal building with upstairs desk, 12' diameter
01900		**Earth materials**	A few more tips on what not to try
		WATER	
02010		**Water intro**	Critical things to keep in mind concerning this need
02040		**Any-stick dome**	A clean trash can can be an economical tank'
02100		**Stills**	One means of purifying water
02110		**Distilling sea water** (theory)	Wave & tide energy assist water pumping and distillation
02120		**Well pumps**	Some of my semi-successful DIY attempts
02130		**Cistern pump**	Creative improvements applied in a developing nation
02140		**Atmospheric pump** graphic	Uses thermal energy to pump water in 15.7gal tank
02160		**Cistern under garden** (theory)	Developing a complete sustainable food+water system
02170		**Wells**	Boring shallow wells from commonly available hardware
03010		**FOOD**	

03020		**Captive water table**	Significantly reduce the amount of water needed
03060		**Water table, circle** graphic	120 (¼ acre), 170 (½ acre), and 240 (1acre) ft diameters
03040		**Trench format garden**	Facilitate mechanization of a captive water table garden
03050		**Extreme water saving garden**	Combine water saving techniques for optimum savings
03230		**High density garden**	Gardening techniques that can multiply productivity
03240		**High density garden tools**	Special tools for high density gardens and water savings
03250		**Compost Comfort** Lazy & efficient	Keep the nutrients of fall leaves in your own soil
04010		**Lighting**	How light is used greatly affects the amount needed
04030		**Electrical**	There are more ways to do this than most realize
		ENERGY – FIRE	
05005		**Keeping warm**	Structure features that can reduce the energy needed
05030		**Using wood stoves**	Important installation considerations
05040		**Basic stove**	Cheap to build, highly efficient, eco-friendly
05045		**Dome flue exit** Graphic	http://technosmith.com/contents/05045-dome flue exit.JPG
05050		**The Dragon** Under $40 in 2022	A small, cheap high-efficiency wood stove
05060		**Small boiler**	Attached to “Dragon” to heat water and produce steam
05080		**Stove with reflector**	Great for heating patio area
05100		**Retrofit wood stove**	Efficient, clean, installed in existing fireplace
05110		**Small forced air heater**	Shroud a “Basic stove” and force air through it
05120		**Prunings burner.pdf**	Clean efficient disposal of orchard waste
05140		**Rammed Earth Stove**	Build from highly compressed earth with tiny % cement
05150		**Cottage kiln**	Wood fired production of art and utility objects
		COOKING	
05200		**Why a cook stove out of mud**	Fuel efficient, smokeless solution to primitive kitchens
05210		**Small stove carved into the earth**	“little mud”
05225		**Backyard stove**	Cook outdoors during the summer
05230		**StoveTopOven**	Invented to cook a girlfriend’s birthday cake
05240		**Cook stove from a scrap of pipe**	You can’t make an efficient stove more easily than this
05250		**Cardboard cooker** solar power	An easy and cheap way to “crock pot” anything
		SOLAR +	
05300		**Introduction to solar**	There are more options in solar than most realize
05340		**SolarHeatedAir**	Greatly increase efficiency of solar heated air
05350		**Solar Hot Water**	Economical way to heat your above ground pool
05360		**Heliostat**	A high-tech device with many possibilities
05380		**Wind**	Generally inconsistent and seasonal, but great in places
		MANIPULATING ENERGY	
05410		**The Energy Tree**	Opportunities and pitfalls
05415		**Perpetual motion of fools**	Fun projects for those who love to fail
05420		**Reality for the masses**	If you have dumb friends, this helps you recognize them
05430		**StoringEnergy**	There are more ways to do this than you might think
05450		**Pumping heat**	Using mechanical energy you can make hot or cold
05470		**Energy systems**	Managing of energy sources, storage, and conversion
05480		**Heat powered engines**	Converting thermal energy into mechanical energy
		See 05060-**Small Boiler**	Attachment to dragon for heating water or making steam
05500		**Steam engine 3 moving parts**	I made this public domain so no one could patent it

05510		**Stirling**	World's most efficient engine was invented by a minister
05520		**Check Valve Power**	Concept engine – also intentionally in the public domain
05525		**Stirling data table**	Calculates available outputs under various conditions
05530		**Wet Stirling**	Yet another creative way to create mechanical energy
05540		**Odd engines**	Creative applications from simple physics
05560		**Jet engine in my house**	Another don't anyone (else) try this at home story
05600		**Refrigeration**	Various ways to cool things
05620		**Linked Stirling**	Yet another way to pump heat
05630		**Storing cool**	More refrigeration basics
05650		**Ice chest air**	Forced air cooling invented during an emergency
05660		**The Cool Earth**	http://technosmith.com/contents/05660-cool%20earth.pdf
06000		**TRANSPORTATION**	Avoiding petroleum and expenses relating to cars
06010		**Recycling cart**	A stronger, larger and legal alternative to grocery carts
06030		**MobileHomeless**	Made for a homeless friend who lived in it for 5 years
06040		**Folding bike** graphic	Needed a compact bike to store under my desk at work
06050		**Compact bike** graphic	For awhile I had a $100 bounty on the first one to ride it.
		HEALTH	
08020		**Bath pan**	Cheap, lightweight, answer to bathing, or laundry
08040		**6" auger**	Use for well or toilet pit
08050		**8" auger**	Use for toilet pit or well
08070		**Off Grid Toilets**	A radical sanitation improvement over existing practices
08110		**Low tech composting toilet**	A clean and simple solution to a need we all have
		MORE	
09010		**home sheetmetal basics**	Simple techniques to equip you to solve many problems
09020		**Splitting rocks**	Not everyone needs this – but I did, so here it is
09030		**Petro chemical replacement**	Introduction to a science to reduce need of petroleum
09040		**Starting car with a weak battery**	Answer to a desperate need one stranded freezing morning
09050		**stepper motor from alternator**	I needed to computer-control something in small steps
09070		**Furniture legs** adjustable	add 3" to 5" variable height to your whatever
09210		**Dog trainer** alternative to a bullet	Train your neighbor's dog not to bark
09230		**Prowler pooper**	How to make a prowler poop
10010		**Enterprise**	
		COMMUNITY DESIGNS	
11500		**50'x60' model village** – graphic	Population 1-6 on a 50x60 foot lot
13040		**The Jesus Camp**	technosmith.com/contents/13040-jesus camp.pdf
11510		**Changes** – graphic	technosmith.com/contents/11510-changes.jpg
11520		**Appropriate infrastructure**	technosmith.com/contents/11520-a infrastructure.jpg
11530		**Liability form** – initial draft	This is only a draft; has not been reviewed by a lawyer
		PRESENTATIONS	
12010		**Hexagon based display maze**	49 panels, 30x22.7 feet of creative display maze
12012		**Small display maze**	26 panels, 20 x 21 feet
12530		**Homeless action items**	power point presentation
12540		**Global warming**	A power point presentation summary on global warming
12560		**Starter Camp**	technosmith.com/contents/12560-starter camp.pdf
		ESSAYS and OPINIONS	

13010		**Local supply chain**	Reduce dependence upon resources you cannot control
13020		**Prove Me Wrong** (quantum physics)	Reconsidering theories about gravity and light
13030		**News Media**	How to analyze news media bias
13090		**American Preppers**	A history of American Prepper mentality
		OUTLAW UNIVERSE	
13060		**The Outlaw Universe**	**The physical universe has a message for us**
13061		**Introduction to Christianity**	**For those to whom it would matter if God existed**
13062		**The World Until Now**	**Where we are today and how we got here**
13063		**The Church Until Now**	**What's changed since Pentecost, and what's next**
13064		**Welcome to the Stone Age**	**As the age of empires closes, God's kingdom inherits**
13065		**The Rogue Empire**	**The second half of the final week; The Day Of The Dragon**
13066		**Walking in the Real World**	**The spiritual realm *is* the real world**
			13200-final days.pdf
13100		**Candor** **(A free novel)**	**An adventure in creating a sustainable parallel civilization**
13120		Poetry	
13200		**Approaching Final Days**	
13210		**Event Matrix** .pdf format	A spreadsheet relating end-times subjects to Bible references
13311		**End Times Subjects**	
13150		**Revelation** Commentary	Revelation, as explained only by other verses in this work
13130		**A Modern Bible Translation** (ASV)	A free download of the entire Bible in public domain
Samples of books in print			
13530	+	**Expatriates of Babylon** – First five pages of part 1 in trilogy	Homeless people develop mutually helpful relationships with mainstream society.
13540	+	**Arland** – First seven pages of part 2 in trilogy	A futuristic village is developed in a desert canyon.
13550	+	**The Livewood** – First eleven pages of part 3 in trilogy	The Livewood establishes colonies of people in different parts of the Solar System, to preserve the human race.
			http://www.lulu.com/shop/william-huff/expatriates-of-babylon/paperback/product-22307591.html
			https://www.lulu.com/shop/william-huff/arland/paperback/product-23471631.html
			https://www.lulu.com/shop/william-huff/the-livewood/paperback/product-22558115.html
80000			
Access to books in print			
Surviving the Streets and Future: This is a hard copy compendium of the technical section of my web page – Since most of its contents are available at technosmith.com			
Expatriates of Babylon: Part one of a fiction trilogy. A resourceful individual winds up homeless following a layoff. He develops a new quality of life for street survival and interfacing with society.			
Arland: Part two of trilogy; Modified biosphere technology begins to grow locally sustainable communities in Arizona deserts.			
The Livewood: Part three of trilogy. A rebellious student finds his path in a project to develop space colonies. This one starts in New Mexico, but eventually gets off the ground.			
Avoiding Deception: Exposes corruption in the early church and today, as revealed by the Bible.			
Journeys of the Heart: Nonfiction poetry and adventure that is born of real life experiences			

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