

***Supplemental Notes:***

**Cosmic Codes:  
Hidden Messages From the  
Edge of Eternity  
Volume 1**

Are the Equidistant Letter Sequence Codes real? What do they *really* signify? Are there other codes in the Bible that are even more significant?

Chuck Missler, an internationally recognized authority, explores the history of cryptography—the study of secret codes—and the background of proposed interstellar languages in this first in his series on *Cosmic Codes: Hidden Messages from the Edge of Eternity*.

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# Cosmic Codes:

## Hidden Messages From the Edge of Eternity

### Volume 1

In this series we'll explore the following topics:

- The Field of Cryptography: Secret Writing
- Extraterrestrial Communication
- Hidden Codes in the Bible
- The "Bible Codes"—Real or Imaginary?
- Microcodes: Jots and Tittles
- Macrocodes: Strategic Structure
- Metacodes: Beyond our Own Awareness

### Codes in Literature

- Edgar Allan Poe, *The Gold Bug*.
- Arthur Conan Doyle, *The Adventure of the Dancing Men*.
- Carl Sagan, *Contact*.

### The Codes of War

- Germany's *Enigma*: from Alberti's cipher disks and Cardano's Autokey.
- *Black*, the American code.  
— October 23, 1942: El Alamein.
- Project *Ultra*: Turing & Von Neumann.
- *Magic* victory over Japan's *Purple*.  
— Day and hour of Pearl Harbor...

### Hidden Messages in the Bible?

*It is the glory of God to conceal a thing; but the honor of kings is to search out a matter.*

Proverbs 25:2

## Methods of Concealment

- Steganography
- Cryptography
  - Codes
  - Ciphers
    - Transposition
    - Substitution

### Transposition Ciphers

- Skytale
- Railfence Cipher
- Columnar Transpositions

### Railfence Cipher

```
  P           H           N
   L     E   E     E   O
    E  S       L  M   W
     A           P
```

Ciphertext: PHNLEEEEOESLMWAP

### Columnar Transposition

1	2	3	4	5	6	Keyword: "DARKLY"
C	I	N	D	E	R	ADKLR
E	L	L	A	B	E	214536
H	O	M	E	B	E	
F	O	R	E	M	I	
D	N	I	G	H	T	

Ciphertext:

ILOON CEHFD DAE EG EBBMH NLMRI REEIT

## The “Cardano Grille”

Another example is the “Cardano Grille”: Placed over a message, the “cutouts” in the grille would reveal a secret message.

## Equidistant Letter Sequences

The “Equidistant Letter Sequences” cipher is simply a Cardano Grille with the simplest possible formula—a fixed linear sequence of skipped letters. Not that useful for secrecy, they can be used to authenticate a Source.

## Substitution Ciphers

- Monoalphabetic
  - Caesar
  - One-on-one Mapping
- Polyalphabetic (Autokey)
- Polygraphic (Playfair Cube)
- Block Substitution (and Fractionating)

## Caesar Cipher

Plaintext: THIS IS A FASCINATING BOOK  
Ciphertext: WKLVL VIDIV FLQDW LQJER RN

## One-On-One Mapping

plaintext letters/CIPHERTEXT LETTERS

a b c d e f g h i j k l m  
B Q A C S R D T O F V M H

n o p q r s t u v w x y z  
W I J X G K Y U N Z E P L

enemy = SWSHP RIS = foe

## Polyalphabetic Ciphers

- Leon Battista Alberti (1404-1472):  
*Vigenère Polyalphabetic Ciphers.*
- Caesar Ciphers, with variable rotation.
- (*Porta* and *Beaufort* variations.)

## Vigenère Tables

Plaintext	Key Letter																									
	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
A	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
B	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	A
C	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B
D	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C
E	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D
F	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E
G	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F
H	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G
I	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H
J	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I
K	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J
L	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K
M	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L
N	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M
O	O	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N
P	P	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
Q	Q	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
R	R	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
S	S	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
T	T	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
U	U	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
V	V	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
W	W	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
X	X	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W
Y	Y	Z	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
Z	Z	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

## Dynamic Polyalphumerics

- Blaise de Vigenère: *Autokey.*
  - each enciphered letter becomes the key for the next.

- (c. 1585): *One-Time Pad*.
- Modern ciphers use millions of continually changing cipher alphabets.

### Polygraphic Ciphers

- Two or more letters operate together.
- Undercuts monographic frequency analysis.
  - Obliterates single letter characteristics.
  - It halves the numbers of elements available for frequency analysis.
  - The number of available digraphs are greater than the number of letters.

### Playfair Code

A B C D E	Plaintext:
F G H J K	MUST COME NOW
L M N O P	
Q R S T U	MU ST CO ME NO WX
V W X Y Z	
	[RP XY ND BP ST BC]

Ciphertext: RPWYN DBPST BC

### NBS DES

- National Bureau of Standards' Data Encryption Standard
  - 64-bit key controls
  - 17 stages of polyalphabetic substitutions, each alternated with 16 transpositions.
- Exhaustive search of all  $2^{64}$  keys.

### Miscellaneous Topics

- Fractionating Schemes
  - Bifid
  - Trifid

- One-Way Keys (Public Keys)
  - PGP

### Cipher Devices

- Alberti's Cipher Disk
- Wheatstone Disk
- Thomas Jefferson's Wheels
- Babbage's *Difference Engine*
- *Enigma* machines in WWII
- Turing/Von Neumann Machines
- Modern Computers

### Paracryptology

- Jean-Francois Champollion
  - Egyptian Hieroglyphics
- Henry C. Rawlinson, Cliff of Behistun
  - Babylonian
  - Old Persian
  - Elamite

### Extraterrestrial Communication

- Project Ozma
- CETI: National Academy of Sciences, Byukratan, Russia
- SETI: 37 intercepts

### Extraterrestrial Languages

- Descartes, Leibnitz, Dalgarno, Giuseppe Peano, et al.
- N. D. Andreyev, Leningrad Academy of Sciences: statistical techniques.
- Jean-Francois Sudre: a seven note/seven color scheme.
- Alfred North Whitehead and Bertrand Russell: *Principia Mathematica* foundations of mathematics and logic to be identical.
- Dr. Hans Freudenthal, professor of mathematics,

University of Utrecht in the Netherlands:  
 “Lincos” from *lingua cosmica*.

- Lancelot Hogben, Fellow of the Royal Society:  
*Astraglossa*.

### Pictorial Constructs

- Plaque on Pioneer X spacecraft.
- Appeal of concreteness.  
 — Arthur C. Clarke suggested this from the model of television.
- Chinese Pictographs.
- Skull and crossbones on a medicine bottle.
- Road signs, chemical formulas, notes of music, Arabic numerals.

### Extraterrestrial Language

- How would you recognize one?
- Characteristics  
 — Pictorial, Conceptual, or Phonetic?  
 — Self-Parsing  
 — Use of Redundancy

### Communication Redundancy

**A blessed friend brought breath and ease again.**  
**A cursed fiend wrought death disease and pain.**

- English is about 75% redundant.
- Vowels are generally redundant.
- Redundancy improves signal/noise ratios.
- Cryptanalysis depends upon redundancy.

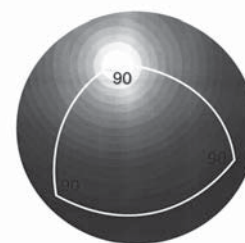
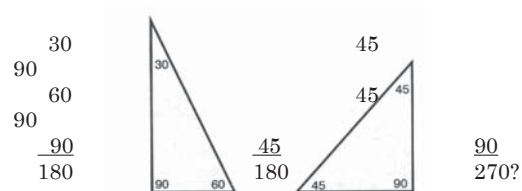
### Einstein’s Revolution

- Special Relativity (1905)  
 — Length, mass, velocity and time are *relative* to velocity of the observers.
- General Relativity (1915)  
 — No distinction between time & space = a four-

dimensional continuum (confirmed 12 ways to 14 decimals).

- Time = Physical Property  
 — We exist in *more* than 3 dimensions. Time itself is a *physical* property.  
 — Time varies with Mass, Acceleration, Gravity.

### Lessons From Trigonometry



### Demonstrations

- Atomic Clocks  
 — Faster by  $10^{-16}$  /meter.
- Aircraft experiment (1971)  
 — Eastward : lost 0.06 microsec.  
 — Westward: gained 0.27 microsec.
- Twin Astronauts (hypothetical)  
 —Alpha Centauri trip.

*People like us, who believe in physics, know that the distinction between the past, the present, and the future, is only a stubbornly persistent illusion.*

Albert Einstein

### Two Critical Discoveries

- 1) We have in our possession an *Integrated Message System*
  - 66 separate books
  - Penned by 40 different individuals
  - Over thousands of years
- 2) Which provably has its origin from *outside our time domain*

### From Outside Time

*For thus saith the high and lofty One that inhabiteth eternity.* Isaiah 57:15

### Authentication

*Declaring the end from the beginning, and from ancient times the things that are not yet done...* Isaiah 46:10

### Are There Hidden Codes in the Bible?

*It is the glory of God to conceal a thing: but the honor of kings is to search out a matter.* Proverbs 25:2

### Albam

א ב ג ד ה ו ז ח ט י כ  
ל מ נ ס ע פ צ ק ר ש ת

Example: Isaiah 7:6

### Atbash

א ב ג ד ה ו ז ח ט י כ  
ל מ נ ס ע פ צ ק ר ש ת

Examples: Jeremiah 25:26 & 51:41; Jeremiah 51:1

### The Fall of Babylon

ישת ישת אדכ וגח  
מנא מנא תקל פרס

**M<sup>n</sup>:** numbered, reckoned. "God hath numbered thy kingdom and finished it." (Your number's up.)

**T<sup>k</sup>l:** weighed. "Thou art weighed in the balances, and art found wanting."

**P<sup>r</sup>s:** broken, divided. "Thy kingdom is divided, and given to the Medes and the Persians." (Paras is also the word for Persians.)

### What About the "Bible Codes"?

- Michael Drosnin's book, *The Bible Code*.
- The *Equidistant Letter Sequences*.
- Are there really hidden messages predicting the future?

\* \* \*

## Tape 2: Are There Hidden Codes in the Biblical Text?

*The secrets of the Torah are revealed... in the skipping of the letters.*

Rabbi Moses Cordevaro, 16<sup>th</sup> century

### Torah Codes

49 (72) letter sequences:

- Genesis TORH
- Exodus TORH
- Leviticus ?
- Numbers HROT
- Deuteronomy HROT

- Leviticus (Intervals of 7)

וַיִּקְרָא אֱלֹמֶשֶׁה וַיְדַבֵּר יְהוָה אֵלָיו מֵאֵהָל מוֹעֵד לְאֹמֶר:

יהוה  
YHWH

The Torah Always Points to YHWH!

### The Torah Codes

- Weissmandel, H. M. D., *Torath Hemed*, 1958.
- D. Michaelson, "Codes in the Torah," *B'OR Ha Torah*, Number 6, 1987.
- D. Witzum, E. Rips, & Y. Rosenberg, "Equidistant Letter Sequences in the Book of Genesis," *Journal of the Institute of Mathematical Statistics*, August 1994.
- J. B. Satinover, "Divine Authorship? Computer reveals startling word patterns," *Bible Review*, October 1995.

## The Ellipsis Closes

- The Kabbalists textual traditions
- The Cryptology of the Renaissance
- The Development of Mechanical Aids
- The Enigma Machines
- Wartime Computer Development
- The (Re)Discovery of the codes

### Israel: ישראל

- 1st 10,000 letters of Genesis, -100 to +100:  
— only twice: intervals of 7 and 50.
- Genesis 1:31 - 2:3  
— *Kiddush*, The Sabbath observance.  
— Jubilee Year, after 7 Shmitas.

### Trees in Genesis

*And God said, Behold, I have given you every herb bearing seed, which is upon the face of all the earth, and every tree, in the which is the fruit of a tree yielding seed; to you it shall be for meat...*

Genesis 1:29

...and ending with

*And out of the ground made the LORD God to grow every tree that is pleasant to the sight, and good for food; the tree of life also in the midst of the garden, and the tree of knowledge of good and evil.*

Genesis 2:9

### Trees in Genesis 2:

אשל	Tamarisk (2)
אלה	Terebinth, (-2)
עבה	Thicket (or Dense forest) (-3)
הדר	Citron (-3)
שטה	Acacia (-3)
שקד	Almond (5)
חטה	Wheat (5)

תמר	Date Palm (5)
ארז	Cedar (-5)
אהלים	Aloe (6)
ענב	Grape (-6)
אשר	Boxthorn or Bramble (7)
קדה	Cassia (7)
רמו	Pomegranate (8)
נפר	Gopherwood or fir (8)
סנה	Thornbush [Crataegus] (9)
זית	Olive (-9)
בטן	Pistachio Nut (13)
לין	Hazel (-13)
תאנה	Fig (14)
ערבה	Willow (-15)
אלון	Oak (17)
נפן	Vine (-18)
שערה	Barley (-28)
ערמו	Chestnut (44)
לבנה	Poplar (-85)

### Statistical Science Article

- Doron Witzum, Eliyahu Rips, Yoav Rosenberg submit research results.
- 34 most prominent rabbis, their dates of birth and death. *All* found (1 in 775 million?).
- 32 additional requested; all found.
- After 6 year review, article accepted.

### Holocaust Codes

Name		Interval	Begins at:
Hitler	היטלר	22	Deut 10:17
Auschwitz	אושוויץ	-13	Deut 10:21
Holocaust	שואה	13	Deut 10:20
The Holocaust	השואה	50	Deut 31:16
Crematorium for my sons	כבשן לבני	134	Deut 31:28
In Poland	בפולין	-107	Deut 32:22
Plagues	מנפות	-134	Deut 32:32

The Fuhrer	הפירר	5	Deut 32:50
Eichmann	אייכמן	9670	Deut 32:52
King of the Nazis	מלך נאצים	-246	Deut 33:16
Genocide	רצח עם	-22	Deut 33:21
Auschwitz	אושוויץ	-536	Deut 33:24
Germany	גרמניה	-933	Deut 33:28
Hitler	היטלר	-3	Num 19:13
Mein Kampf	מין קאמפ	9832	Num 22:1

### The Big Guns Take a Look

- Dr. Harold Gans
  - Senior mathematician, National Security Agency.
  - Personal computations; 440 hours (19 days).
  - Less than 1 in 62, 500 due to chance.
- All 8 referees, after 6 years of review, have become believers in the codes.

### The Exploitation Begins...

- Michael Drosnin, *The Bible Code*, Simon and Schuster, 1997.
  - Predicts Rabin's assassination?
  - Contrived translations; specious mathematics.
  - Not a believer.
- Jeffrey Satinover, *Cracking the Bible Code*, Wm. Morrow and Co., NY 1997.
- John Weldon, *Decoding the Bible Code - Can We Trust the Message*, Harvest House 1998.

### Yeshua Codes

- Yacov Rambsel
  - *Yeshua*
  - *Jesus Is My Name*
- Grant Jeffrey
  - *The Signature of God*
  - *The Handwriting of God*

## Yeshua Frequencies

- Yeshua, ישוע, appears (in intervals <100).  
— 5,538 instances in the Old Testament.  
2,919 going forward (136 with no intervals).  
2,619 going backward.
- “The volume of the book is written of me.”
- “Search the Scriptures...they are written of me.”

## Tanakh Frequency Tables

	Total	Frequency (%)
י	137,845	11.51663309441
ו	129,575	10.82569359214
ה	101,953	8.51793894501
א	95,674	7.99334291904
ל	88,302	7.37742925389
ר	68,058	5.68608955813
ב	65,211	5.44822924821
ת	63,196	5.27988062704
ש	58,194	4.86197501757
מ	57,630	4.81485411319
ע	44,808	3.74360546770
ם	41,291	3.44976819690
נ	39,852	3.32954305255
כ	33,468	2.79617451778
ז	32,368	2.70427204469
ח	27,600	2.30591659767
ק	16,277	1.35990595871
פ	15,729	1.31412181756
ן	15,240	1.27326699089
ד	14,002	1.16983493480
צ	11,687	0.97642200279
ג	10,076	0.84182665356
ך	9,099	0.76020054791
ס	7,935	0.66295102183
ט	6,309	0.52710245705
ץ	3,288	0.27470484685
ף	2,554	0.21338083299

## Yeshua Codes

- Genesis 1:1 *Yeshua is able.*
- Genesis 3:27 Adam and Eve covered: *Yoshiah*, “He will save.”
- Ruth opens with 5-interval sequence, *Yeshua*.
- Daniel 9, the Seventy Weeks, with a 26-letter interval, *Yeshua*.

## Isaiah 53

Yeshua is my name	ישוע שמי
His Signature	מחתימו
Messiah	משיח
Nazarene	נזיר
Galilee	גליל
Shiloh	שילה
Pharisee	פרוש
Levites	לויים
Caiaphas	כיפה
Annas	ענן
Passover	פסח
The man Herod	איש הורד
Wicked Caesar perish	קיסר עמל אכז
The Evil Roman City	רע עיר רומי
Let Him be crucified	יצלב
Moriah	הירמ
Cross	צלב
Pierce	דקר
From the Atonement Lamb	מכפר טלא
Bread	הלחם
Wine	יין
Obed	עבד
Jesse	ישי
Seed	זרע
Water	מים
Jonah	יונה
The Disciples mourn	למדים אנן
Peter	כפה
Matthew	מתתי
John	יוחנן

Andrew	אנדרִי
Philip	פִּילִיפּ
Thomas	תּוֹמָא
James	יַעֲקֹב
James	יַעֲקֹב
Simon	שִׁמְעוֹן
Thaddaeus	תָּדִי
Matthias	מַתִּיָּה
Mary	מָרְיָם
Mary	מָרְיָם
Mary	מָרְיָם
Salome	שַׁלְמוּת
Joseph	יוֹסֵפ

### A Literary Puzzle

*Upon this basis I am going to show you how a bunch of bright young folks did find a champion: a man with boys and girls of his own; a man of so dominating and happy individuality that Youth is drawn to him as is a fly to a sugar bowl. It is a story about a small town. It is not a gossip yarn; nor is it a dry monotonous account, full of such customary fill-ins as romantic moonlight casting murky shadows down a long, winding country road.*

Ernest Vincent Wright

### Statistical Behavior

- In English, “e’ s” occur about 13%.
- What’s the chance that the previous paragraph happened by accident?
- Taken from a 267-page novel: *Gadsby, A Story of Over Fifty Thousand Words Without Using the Letter E*, published in 1939 by Ernest Vincent Wright.

*The phenomenon is real; what it means is up to the individual.*

Prof. David Kashdan, Chairman  
Dept of Mathematics, Harvard, 1996

### The Dark Side of the Codes

- Myopic Critics?
- Divination?
- The Lure of the Occult
  - Kabbalah
  - Gematria
  - Gnostic Heresies

### Forthcoming Sessions

- Microcodes: Jots and Tittles
- Macrocodes: Strategic Structures
- Metacodes: Beyond our own Awareness
- Searching on your own...

\* \* \*

This briefing package was excerpted from *Cosmic Codes — Hidden Messages from the Edge of Eternity*, by Chuck Missler, published by Koinonia House, 1998.

## Suggestions for Further Reading:

### Cryptology

Kahn, David, *The Code Breakers*, MacMillan, New York, 1967. 1167 pages of history of codes and ciphers from ancient times to the present day, with emphasis on the people involved.

Gaines, Helen Fouche, *Cryptoanalysis*, Dover, New York, 1939. The amateur cryptanalyst's bible.

Sinkov, Abraham, *Elementary Cryptanalysis*, The Mathematical Association of America, 1966. Analysis of the mathematics involved.

Ohauer, M.E., *Cryptogram Solving*, The Etcetera Press, Columbus OH, 1973.

Bowers, William M., *Practical Cryptanalysis*, 3 Vols., The American Cryptogram Association, 1960. (See journal below.)

Winterbotham, F.W., *The Ultra Secret*, Futura Publications Ltd., London 1974. How the Allies broke the German ciphers in World War II.

Clarke, Ronald, *The Man Who Broke Purple*, Little, Brown, Boston 1977. The biography of William Friedman.

#### Journals:

*Cryptologia*, Albion College, Albion MI 49224. The scholarly journal of the field.

*The Cryptogram*, American Cryptogram Association, 1007 Montrose Ave., Laurel Md 20810. Official publication of the amateur society.

### Paracryptology

Pope, Maurice, *Decipherment*, Scribner's, New York 1975. History of Champollion and others deciphering dead languages.

### Communication with Extraterrestrial Intelligence

I.S. Shklovskii and Carl Sagan, *Intelligent Life in the Universe*, Holden-Day, San Francisco CA, 1966.

A.G.W. Cameron, ed., *Interstellar Communication*, Benjamin, New York, 1965.

Walter Sullivan, *We Are Not Alone*, McGraw-Hill, New York, 1964.

(These first three references include a summary of the first conference on extraterrestrial intelligence held in the U.S. in 1961.)

Carl Sagan, ed., *Communication with Extraterrestrial Intelligence, (CETI)*, The MIT Press, Cambridge MA and London England, 1973.

G. M. Tovmasyan, ed., *Extraterrestrial Civilizations*, Armenian Academy of Sciences, Erevan; English translation by Z. Lerman, Israel Program for Scientific Translations, IPST 1823, 1967.

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