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*.
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

- 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 O
S L M W
A P
```

Ciphertext: PHNLEEEOESLMWAP

Columnar Transposition

```
1 2 3 4 5 6
I L O O N
C E H F D
D A A G E
E B B M H
N L M R I
R E E I T
```

Keyword: “DARKLY”

Ciphertext:

ILOON CEHFD DAEEG 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 VDIDV FLQDW LQJER RN

One-On-One Mapping

plaintext letters/CIPHERTEXT LETTERS

\[
\begin{array}{cccccccccccccccc}
& a & b & c & d & e & f & g & h & i & j & k & l & m \\
B & Q & A & C & S & R & D & T & O & F & V & M & H \\
& n & o & p & q & r & s & t & u & v & w & x & y & z \\
W & I & J & X & G & K & Y & U & N & Z & E & P & L \\
\end{array}
\]

enemy = SWSHP  RIS = foe

Dynamic Polyalphanumerics

- 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
F G H J K          L M N O P
Q R S T U          Q R S T U
V W X Y Z          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, Dalgaro, 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,
• 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

<table>
<thead>
<tr>
<th>Angle</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>30</td>
<td>0.52</td>
</tr>
<tr>
<td>45</td>
<td>0.71</td>
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<tr>
<td>90</td>
<td>1</td>
</tr>
<tr>
<td>180</td>
<td>0</td>
</tr>
<tr>
<td>270</td>
<td>0.52</td>
</tr>
</tbody>
</table>

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
   — Penred 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

Example: Isaiah 7:6

Atbash

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

The Fall of Babylon

M'nu: numbered, reckoned. “God hath numbered thy kingdom and finished it.” (Your number’s up.)

T'k'l: weighed. “Thou art weighed in the balances, and art found wanting.”

P'r'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”?

• 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, 16th century

Torah Codes

49 (72) letter sequences:
- Genesis TORH
- Exodus TORH
- Leviticus ?
- Numbers HROT
- Deuteronomy HROT
- Leviticus (Intervals of 7)

The Torah Always Points to YHWH!

The Torah Codes


Israel: יְָהֹוָה

- 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 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:
- יָלוּר תamarisk (2)
- יַרְבּוֹ דִשְׁלֶד Terebinth, (-2)
- יָפָה Thicket (or Dense forest) (-3)
- יָדוֹCitron (-3)
- יָאֲבֵא Acacia (-3)
- יָאֲפָל Almond (5)
- יָאֲר Wheat (5)
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

<table>
<thead>
<tr>
<th>Name</th>
<th>Interval</th>
<th>Begins at:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hitler</td>
<td>22</td>
<td>Deut 10:17</td>
</tr>
<tr>
<td>Auschwitz</td>
<td>-13</td>
<td>Deut 10:21</td>
</tr>
<tr>
<td>Holocaust</td>
<td>13</td>
<td>Deut 10:20</td>
</tr>
<tr>
<td>The Holocaust</td>
<td>50</td>
<td>Deut 31:16</td>
</tr>
<tr>
<td>Crematorium</td>
<td>134</td>
<td>Deut 31:28</td>
</tr>
<tr>
<td>for my sons</td>
<td></td>
<td></td>
</tr>
<tr>
<td>In Poland</td>
<td>-107</td>
<td>Deut 32:22</td>
</tr>
<tr>
<td>Plagues</td>
<td>-134</td>
<td>Deut 32:32</td>
</tr>
<tr>
<td>The Fuhrer</td>
<td></td>
<td>Deut 32:50</td>
</tr>
<tr>
<td>Eichmann</td>
<td></td>
<td>Deut 32:52</td>
</tr>
<tr>
<td>King of the Nazis</td>
<td></td>
<td>Deut 33:16</td>
</tr>
<tr>
<td>Genocide</td>
<td></td>
<td>Deut 33:21</td>
</tr>
<tr>
<td>Auschwitz</td>
<td></td>
<td>Deut 33:24</td>
</tr>
<tr>
<td>Germany</td>
<td></td>
<td>Deut 33:28</td>
</tr>
<tr>
<td>Hitler</td>
<td>-3</td>
<td>Num 19:13</td>
</tr>
<tr>
<td>Mein Kampf</td>
<td></td>
<td>Num 22:1</td>
</tr>
</tbody>
</table>

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...

  - Predicts Rabin's assassination?
  - Contrived translations; specious mathematics.
  - Not a believer.

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.”

Isaiah 53

Yeshua is my name יושע
His Signature מושע
Messiah מessiah
Nazarene נצר
Galilee גליל
Shiloh שילה
Pharisee פורוש
Levites לוי
Caiaphas קיפא
Annas אנה
Passover פסח
The man Herod的应用
Wicked Caesar perish的应用
The Evil Roman City的应用
Let Him be crucified ייסו
Moriah מורי
Cross צלב
Pierce פטרכ
From the Atonement Lamb מפסל שלג
Bread לחם
Wine יין
Obed עובד
Jesse יסא
Seed זית
Water מים
Jonah יון
The Disciples mourn ינשיג
Peter פטר
Matthew מתי
John יון

Tanakh Frequency Tables

<table>
<thead>
<tr>
<th>Letter</th>
<th>Total</th>
<th>Frequency (%)</th>
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<tbody>
<tr>
<td>ת</td>
<td>137,845</td>
<td>11.51663309441</td>
</tr>
<tr>
<td>כ</td>
<td>129,575</td>
<td>10.82569359214</td>
</tr>
<tr>
<td>ה</td>
<td>101,953</td>
<td>8.51793894501</td>
</tr>
<tr>
<td>י</td>
<td>95,674</td>
<td>7.99334291904</td>
</tr>
<tr>
<td>כ</td>
<td>88,302</td>
<td>7.37742925389</td>
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<tr>
<td>ה</td>
<td>86,058</td>
<td>7.080955813</td>
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<td>י</td>
<td>65,211</td>
<td>5.44822924821</td>
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<tr>
<td>כ</td>
<td>63,196</td>
<td>5.27988062704</td>
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<tr>
<td>ח</td>
<td>58,194</td>
<td>4.86197501757</td>
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<tr>
<td>כ</td>
<td>57,630</td>
<td>4.81485411319</td>
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<td>ה</td>
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<tr>
<td>כ</td>
<td>41,291</td>
<td>3.44976819690</td>
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<tr>
<td>ח</td>
<td>39,852</td>
<td>3.2954305255</td>
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<tr>
<td>כ</td>
<td>33,468</td>
<td>2.79617451778</td>
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<td>ח</td>
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<tr>
<td>ק</td>
<td>27,600</td>
<td>2.30591659767</td>
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<tr>
<td>י</td>
<td>16,277</td>
<td>1.35990595871</td>
</tr>
<tr>
<td>ק</td>
<td>15,729</td>
<td>1.3142181756</td>
</tr>
<tr>
<td>י</td>
<td>15,240</td>
<td>1.2732669089</td>
</tr>
<tr>
<td>ק</td>
<td>14,002</td>
<td>1.16983493480</td>
</tr>
<tr>
<td>ב</td>
<td>11,687</td>
<td>0.97642230279</td>
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<tr>
<td>ק</td>
<td>10,076</td>
<td>0.84189663556</td>
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<td>י</td>
<td>9,099</td>
<td>0.7602054791</td>
</tr>
<tr>
<td>כ</td>
<td>7,955</td>
<td>0.66295102183</td>
</tr>
<tr>
<td>מ</td>
<td>6,309</td>
<td>0.52710245705</td>
</tr>
<tr>
<td>כ</td>
<td>3,248</td>
<td>0.27470484685</td>
</tr>
<tr>
<td>כ</td>
<td>2,554</td>
<td>0.21338083299</td>
</tr>
</tbody>
</table>
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 gossipy 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?

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.


Journals:

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


Paracryptology


Communication with Extraterrestrial Intelligence


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


**Equidistant Letter Sequences**


**Also in the “Cosmic Codes” Briefing Package Series:**

**Cosmic Codes Volume 2: Microcodes**

- Evidence of Design (A Hidden Message in Genesis 5; Hidden Acrostics; “Magic of 7”)
- Breaking the Codes (Hebrew Language; Numerology and Gematria; Heretical Hermeneutics)

**Cosmic Codes Volume 3: Macrocodes**

- Bridging the Time Domain (Types: Macrocodes; The Scarlet Thread; How Certain Can We Be?; The Multidimensional Gospels)
- The Once and Future Calendar (Seventy Weeks; Apocalypse Codes; Treasure Hunting on Your Own)

**Cosmic Codes Volume 4: Metacodes**

- Signals from the 10th Dimension (Our Digital Universe; The Elusiveness of Randomness and Infinity in the Real World)
- The Code of Life (DNA—An Error-Correcting Digital Code; Software is Massless, Thus Eternal; Your Personal Code)
Commentaries on Tape

Chuck Missler’s Expositional Commentaries are now available from Koinonia House. Each volume consists of eight cassette tapes and includes notes, diagrams, and a comprehensive bibliography. Write for a complete list.

Monthly News Journal

Personal UPDATE, a monthly news journal highlighting the Biblical relevance of current events, is also available by writing:

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Coeur d’Alene, ID
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1-800-KHOUSE-1
www.khouse.org
Supplemental Notes:

**Cosmic Codes:**
Hidden Messages from the Edge of Eternity

**Volume 2: Microcodes**

What secrets are hidden in the “jots and tittles” Jesus talked about? What is the mystical significance of numbers? What about gematria as a revealer of secrets?

Here are hidden codes you don’t need a computer for! Chuck Missler, an internationally recognized authority, explores the coded messages hidden behind the “jots and tittles” of the Biblical text as well as the mysterious role of numbers in the Bible.

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Rabbinical Proverb

“We really won’t understand the Scriptures until the Messiah comes. Yet when He comes, He will not only interpret the passages—He’ll interpret the words, the very letters, and even the spaces between the letters!”

“Think not that I have come to destroy the Torah and the prophets; I have not come to destroy but to fulfill. For verily I say unto you, Till heaven and earth pass, one jot or one tittle shall in no wise pass from the law, till all be fulfilled.”

Matthew 5:17, 18

A Provocative Example:
The Genealogy of Genesis 5

<table>
<thead>
<tr>
<th>Name</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam</td>
<td>מָן, adomah, means “man.”</td>
</tr>
<tr>
<td>Seth</td>
<td>Seth, which means “appointed.” Eve said, “For God hath appointed me another seed instead of Abel, whom Cain slew.” (Genesis 4:25)</td>
</tr>
<tr>
<td>Enosh</td>
<td>אֶנוֹשׁ, which means “mortal,” “frail,” or “miserable.” It is from the root anash, to be incurable; used of a wound, grief, woe, sickness, or wickedness.</td>
</tr>
<tr>
<td>Kenan</td>
<td>קֶנָּן, which can mean “sorrow,” “dirge,” or “elegy.”</td>
</tr>
<tr>
<td>Mahalalel</td>
<td>מֹהֲלַלֵל, which means “blessed” or “praise”; and לֹא El, the name for God. “The Blessed God.”</td>
</tr>
<tr>
<td>Jared (Yared)</td>
<td>יָרָד, from the verb yaradh, meaning “shall come down.”</td>
</tr>
<tr>
<td>Enoch</td>
<td>אֶנוֹךְ, which means “commencement,” or “teaching.”</td>
</tr>
<tr>
<td>Methuselah</td>
<td>מְתֻׁשֵׁל, a root that means “death” וְלַשׁ, shalach, which means “to bring,” or “to send forth.” “His death shall bring.”</td>
</tr>
<tr>
<td>Lamech</td>
<td>לָמֶך, a root still evident today in our own English word, “lament” or “lamentation.” “Despairing.”</td>
</tr>
<tr>
<td>Noah</td>
<td>נֹאֵח, which is derived from nacham, “to bring relief” or “comfort,” or “rest.” “And he called his name Noah, saying, ‘This same shall comfort us concerning our work and toil of our hands, because of the ground which the Lord hath cursed.’” (Genesis 5:29)</td>
</tr>
</tbody>
</table>

Adam: Man (is)
Seth: Appointed
Enosh: Mortal
Kenan: Sorrow; (but)
Mahalalel: The Blessed God
Jared: Shall come down
Enoch: Teaching
Methuselah: His death shall bring
Lamech: The Despairing
Noah: Comfort, Rest

Man (is) appointed mortal sorrow, (but) the Blessed God shall come down, teaching His death shall bring the despairing comfort, or rest.
Ivan Panin (1855 - 1942)

- The Heptadic Structure of the Biblical Text...
- Vocabulary unique to Matthew occurs 42 (7 x 6) times and has 126 letters (7 x 18).
- How was this organized?

Unique Vocabularies

- Gospel of Matthew
- Gospel of Mark
- Gospel of Luke
- Gospel of John
- James, Peter, Jude, and Paul … each “written last.”

The Book of Esther

- Name of God does not appear?
- Esther = “Something Hidden”
- Hidden Codes:
  - 5 Acrostics
  - 3 Equidistant Letter Sequences


This is the genealogy of Jesus Christ found in Matthew 1:1-11 (in Greek)!

Initial letters: because the event was initial
Backwards: God was turning back the counsels of man.
Different Speakers

1) Menucan 1:20
2) Esther 5:4
3) Haman 5:13
4) By the writer 7:7

Pairings

1) Initial 1) Backward
2) Initial 2) Forward
3) Final 3) Backward
4) Final 4) Forward

Initial: facts are initial. Backward: Gentiles
Final: facts are final. Forward: Israelites

Introversion

1) Words spoken concerning a queen;
2) Words spoken by a queen;
3) Words spoken by Haman;
4) Words concerning Haman.

Esther 7:5

“I AM”

“Who is he, and where is he, that durst presume in his heart to do so?”
Pilate’s Epitaph

And Pilate wrote a title, and put it on the cross. And the writing was, “Jesus Of Nazareth The King Of The Jews.” This title then read many of the Jews: for the place where Jesus was crucified was nigh to the city: and it was written in Hebrew, and Greek, and Latin.

Then said the chief priests of the Jews to Pilate, “Write not, The King of the Jews; but that he said, I am King of the Jews.”

Pilate answered, “What I have written I have written.”

John 19:19-22
Tape 2: The Hebrew Language

- Pictorial Ideograms (*Sememes*)
- as well as *Phonemes*

- Aleph א = “First”; “Strength”; or “Leader”
- Bet ב = “House”; “Family” (Beth Lehem; Beth-El; etc.)

- Aleph-Beth: “Leader of the House” = “Father”

- Heh ה (Hands lifted up; open window)
  = “Behold”; “Revealed” Also, “Breeze”; “wind”; “Spirit”

- Revealing the heart or essence of the Father... “Love”

Other Attributes of the Hebrew Language

- Ideograms + Phonemes
- Self-Parsing: 5 “final forms”
- Vowels are inferred
- Maximizes available bandwidth

A Speculative Example

- All synagogues read the Torah together through the year.
- *Scripta Continua*: The spaces between letters were inferred until the days of Ezra.
- The ה is often used as an abbreviation for *Ruach Elohim*, The Holy Spirit.

A Contemporary Prophecy?

“An evil fire (twice) into Rabin
God decreed.”

Prime Minister Ytzak Rabin

- “I would take down settlements for peace. I don’t presume we look at the Bible as the map of the State of Israel.” 1994 Independence Day Speech.
- “The Bible is not Israel’s title deed.”
- 30 days later he was assassinated. November 4, 1995.

Numerology

- Study of
  - Numbers (amount, quantity, mathematics)
  - Numeral figures, symbols, expressions
  - Structural design of the text
- Numereics: symbolic, cryptic, and mystical use of numbers
- Gematria: numerical values of alphabet

Suggested Inductive Numerics

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Unity</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>Witness</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>(various)</td>
<td>6</td>
</tr>
</tbody>
</table>
Sevens in the Bible

- Occur in over 600 passages: some overt, some structural, some hidden
- Signifies completeness?

Hebrew Alphanumerics

| 1 | ק | 10 |
| 2 | ב | 20 |
| 3 | ג | 30 |
| 4 | ד | 40 |
| 5 | ה | 50 |
| 6 | ו | 60 |
| 7 | ה | 70 |
| 8 | ז | 80 |
| 9 | ح | 90 |

Greek Alphanumerics

| α | Α | 1 |
| β | Β | 2 |
| γ | Γ | 3 |
| δ | Δ | 4 |
| ε | Ε | 5 |
| ζ | ζ | 6 |
| η | Η | 7 |
| θ | Θ | 8 |

*Vau (6), kappa (90), and samsi (900), later became extinct.

A Mathematical Error?

- Circumference = $3 \times$ diameter?
- Circumference = $\pi \times$ diameter $\pi = 3.14159265358979$

1 Kings 7:23

And he made a molten sea, ten cubits from the one brim to the other: it was round all about, and his height was five cubits: and a line of thirty cubits did compass it round about.

The “Molten Sea”
A Spelling Lesson

\[ \pi \text{ kethiv} \] (written variation) = 111
\[ \varphi \text{ qere} \] (marginal annotation) = 106

\[ 3 \times 111/106 \times 10 = 31.415926535898 \text{ cubits, an error of less than 15 thousandths of an inch!} \]

Gematria

- “Year” = 355 (?)
- “Pregnancy” = 271
- 961: “Signature of God”
- 318: Abraham’s Army?
- 153: Fishes in John 21?
- 888: Jesus, Ιησους
- 666: “Mark of the Beast”?

666

\[ \chi \zeta \varsigma \text{ Christos} \]
\[ X \xi \varsigma \text{ Antichrist} = \text{Pseudo-christ} \]

666

Forms of Gematria

- Ragil (nominal).
- Kolel, the ragil values plus the number of letters in the word.
- Katan, small values; all tens and hundreds reduced to 1 - 9 by summing the digits. (Also called “reduced” values.)
- Hakadmi, nominal values plus the values of each letter preceding it.
- Hameruba Haklali, the value of the word squared.
- Hameruba Haperati, the sum of the squares of each individual letter.
- Miluy, the sums of the values of the names of each letter that makes up the word. (Also called “filling.”)

* * *

Bibliography

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Cosmic Codes:
Hidden Messages from the Edge of Eternity

Volume 3: Macrocodes

How can a message from outside our space-time authenticate itself? How certain can we really be? Is our future hidden in an ancient calendar? What is the most astonishing prophecy in the Bible?

In this provocative series of presentations, Chuck Missler, an internationally recognized authority, explores the coded messages hidden within the Biblical text and their personal significance within this interval between the miracle of our origin and the mystery of our destiny.

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Cosmic Codes
Volume 3: Macrocodes

Tape 1: Macrocodes - Past Tense

- What is a “macrocode?”
- The Akedah
- The Camp of Israel
- How Sure Can We Be?

Macrocodes

- A broad code group which forms the strategic structure of a message or group of messages.
- It can be anticipatory, communicating a pattern or plan.
- It transcends the immediate context.
- It is evidence of intent and design.

Our Primary Certainty

We have also a more sure word of prophecy; whereunto ye do well that ye take heed, as unto a light that shineth in a dark place, until the day dawn, and the day star arise in your hearts:

2 Peter 1:19

Prophetic Scriptures

- 8,362 predictive verses
- 1,817 predictions
- 737 separate matters

J. Barton Payne,
Encyclopedia of Biblical Prophecy

No Other Equivalents

- Islam’s Koran
- Hindu’s Veda
- Bhagavad-Gita
- Book of Mormon

- Nostradamus’ Centuries
- Occultic mediums, channelers, “New Age” spirit guides.

The Akedah:
Abraham’s Offering of Isaac in Genesis 22

Then on the third day Abraham lifted up his eyes, and saw the place afar off.

And Abraham said unto his young men, Abide ye here with the ass; and I and the lad will go yonder and worship, and come again to you.

And Abraham took the wood of the burnt offering, and laid it upon Isaac his son; and he took the fire in his hand, and a knife; and they went both of them together.

And Isaac spake unto Abraham his father, and said, My father: and he said, Here am I, my son. And he said, Behold the fire and the wood: but where is the lamb for a burnt offering?

And Abraham said, My son, God will provide himself a lamb for a burnt offering: so they went both of them together.

Peak: Akedah
Threshing Floor of Arunah
**Rabbinical Precision**

- The Camp of Judah: East of Levites
- The Camp of Reuben: South of Levites
- Strict obedience denies area Southeast
- Thus, only cardinal directions ordained
- Only width of Levite’s camp allowed
- Length proportional to population

**Measuring Certainty: How Sure Can We Be?**

**The Tanach**

- The Old Testament was translated into Greek by 270 BC.
- There are over 300 prophecies detailing the Coming Messiah.
- We are going to examine only 8 of them.
8 Prophecies

Micah 5:2       Bethlehem       1:100,000
Zechariah 9:9    King on Donkey  1:100
Zechariah 11:12  30 pieces of Silver  1:1,000
Zechariah 11:13  Temple, Potter, etc.  1:100,000
Zechariah 13:6   Wounds in hands     1:1,000
Isaiah 53:7      No defense; innocent 1:1,000
Isaiah 53:9      Died with wicked     1:1,000
              Grave with rich
Psalm 22:16      Crucified           1:10,000

Composite Probabilities

• If the population is equally divided male and female, what is the probability that one taken at random is male? 50%, or p = 0.5

• If the population is equally divided between left and right handed, what is the probability that one taken at random is right handed? 50%, or p = 0.5

• Assuming random distributions, what is the probability that one taken at random is a right-handed male? p = 0.5 x 0.5 = 0.25, or 25%

8 Prophecies Combined

• Total population # 100 billion (10^{11})
• Combined probabilities: 10^{28} / 10^{11} = 10^{17}

16 Prophecies Combined

• Over 300 to choose from;
• Assuming no decrease in likelihoods: 10^{28} x 10^{28} = 10^{56}
• 10^{56} / 10^{11} = 10^{45}

48 Prophecies Combined

• (Over 300 to choose from)
• Assuming no decrease in likelihoods: 10^{28} x 10^{28} x 10^{28} x 10^{28} = 10^{108}
• 10^{108} / 10^{11} = 10^{97}

48 Prophecies: 1 in 10^{157}

• Make a “ball” of every atom in the universe: 10^{66}
• Make one for each atom of the universe: 10^{66} x 10^{66} = 10^{132}
• Repeat this exercise every second since the universe began: 10^{132} x 10^{17} = 10^{149}
• 10^{149} vs 10^{157}?
• …we are still short by 10^8: 100,000,000 times!
• …and we’ve dealt with only 48 of over 300 prophecies!

The Most Amazing Ones

• His detailed genealogies.
• Old Testament Messianic prophecies.
• The prediction of the precise day that He would present Himself as King to Jerusalem.

*  *  *

Tape 2: Macrocodes - Future Tense

• The Once and Future Calendar
• The Most Amazing Passage in the Bible
• The Apocalypse Codes

The Appointed Times

And God said, Let there be lights in the firmament of the heaven to divide the day from the night; and let them be for signs, and for seasons, and for days, and years:

Genesis 1:14
The Appointed Times

- As an equidistant letter sequence, it appears only once in Genesis;
- (Statistical expectation: 5 times in the 78,064 letters of Genesis);
- At an interval of 70;
- It is centered on Genesis 1:14.
- Odds against this by unaided chance have been estimated at greater than 70,000,000 to one!

The Feasts of Israel

The Spring Feasts (1st Month: Nisan)
- Passover, Feast of Unleavened Bread, Feast of First Fruits
- Feast of Weeks

The Fall Feasts (7th Month: Tishri)
- Feast of Trumpets, Yom Kippur, Feast of Tabernacles

Passover
- Examined on the 10th of Nisan
- Offered “between the evenings”: 14th (13th on the Gentile calendar...)
- Not a bone to be broken...

Feast of Unleavened Bread
- Hag haMatzah: Leaven a symbol for sin.
- Three matzahs: one broken, hidden.
- Joseph: The baker and the wine steward.

Feast of First Fruits
- “The morrow after the sabbath after Passover...” (Leviticus 23:11)
- The morning of the ultimate “First Fruits.”
- When did the Flood of Noah end? And the ark rested in the seventh month, on the seventeenth day of the month, upon the mountains of Ararat.
  Genesis 8:4

The Two Calendars

- Rosh Hoshana (in the Fall)
- This month shall be unto you the beginning of months: it shall be the first month of the year to you.
  Exodus 12:2

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<td>Chisleu</td>
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<td>11</td>
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<td>Adar</td>
<td>6</td>
<td>12</td>
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<tr>
<td>Ilyar (Zif)</td>
<td>8</td>
<td>2</td>
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<td>Sivan</td>
<td>9</td>
<td>3</td>
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<td>4</td>
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<tr>
<td>Av</td>
<td>11</td>
<td>5</td>
</tr>
<tr>
<td>Elul</td>
<td>12</td>
<td>6</td>
</tr>
</tbody>
</table>
Feast of Shavout
- “Counting the Omer” (49 days)
- Only use of Leavened Bread...
- Prophetic: The Birth of the Church
  - Acts 2: Feast of Pentecost

The Mystery of Enoch
- Oldest Prophecy: 2nd Coming of Christ.
- Born on Shavout.
- Removed prior to the judgment—on his birthday?
- Will the Jewish “clock” restart on the same feast day that it was stopped?

Feast of Trumpets
- Coincident with Rosh Hoshanna.
- “Last Trump?”—vs. “Seventh Trumpet Judgment?”
- Followed by Yomim Noraim, Days of Affliction.

Yom Kippur: Day of Atonement
- Day of national repentance
- Entry into the Holy of Holies.
- Scapegoat.

Sukkot: Feast of Booths
- Feast of Tabernacles—Cf. Transfiguration?
- Leave their temporary dwellings for their permanent ones. (1 Cor 5:2?)

The Most Amazing Prophecy in the Bible
The 70 Weeks of Daniel
- Daniel 9:24 The Scope
- Daniel 9:25 The 69 Weeks
- Daniel 9:26 The Interval
- Daniel 9:27 The 70th Week

The Scope
Seventy weeks are determined upon thy people and upon thy holy city, to finish the transgression, to make an end of sins, to make reconciliation for iniquity, to bring in everlasting righteousness, to seal up the vision and prophecy, and to anoint the most Holy Place.
Daniel 9:24

The 69 Weeks
Know therefore and understand, that from the going forth of the commandment to restore and to build Jerusalem unto the Messiah the King shall be seven weeks, and threescore and two weeks: the street shall be built again, and the wall, even in troublous times.
Daniel 9:25

Rejoice greatly, O daughter of Zion; shout, O daughter of Jerusalem: behold, thy King cometh unto thee: he is just, and having salvation; lowly, and riding upon an ass, and upon a colt the foal of an ass.
Zechariah 9:9

Saying, Blessed be the King that cometh in the name of the Lord: peace in heaven, and glory in the highest. (quoting Psalm 118)
Luke 19:38
And He answered and said unto them, I tell you that, if these should hold their peace, the stones would immediately cry out.

Luke 19:40

And when he was come near, he beheld the city, and wept over it, saying, If thou hadst known, even thou, at least in this thy day, the things which belong unto thy peace! but now they are hid from thine eyes.

Luke 19:41,42

For the days shall come upon thee, that thine enemies shall cast a trench about thee, and compass thee round, and keep thee in on every side. And shall lay thee even with the ground, and thy children within thee; and they shall not leave in thee one stone upon another...

Luke 19:43,44a

...because thou knewest not the time of thy visitation.

Luke 19:44b

The Interval

And after threescore and two weeks shall Messiah be cut off, but not for himself: and the people of the prince that shall come shall destroy the city and the sanctuary; and the end thereof shall be with a flood, and unto the end of the war desolations are determined.

Daniel 9:26

The 70th Week

And he ("the prince that shall come") shall enforce the covenant with [the] many for one week: and in the midst of the week he shall cause the sacrifice and the oblation to cease, and for the overspreading of abominations he shall make it desolate, even until the consummation, and that determined shall be poured upon the desolate.

Daniel 9:27

Israel: God's Timepiece

The 70th Week

<table>
<thead>
<tr>
<th>Week</th>
<th>Time</th>
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<tbody>
<tr>
<td>1)</td>
<td>Abraham to the Exodus</td>
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<tr>
<td></td>
<td>Promise (Gen 12:4)</td>
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<td></td>
<td>Gal 3:17</td>
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<td></td>
<td>Ishmael, (Gen 16:16)</td>
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<tr>
<td></td>
<td>490 years</td>
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<td>2)</td>
<td>Exodus to the Temple</td>
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<td></td>
<td>Begun: 1 Ki 6:38;</td>
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<td></td>
<td>Completed: 1 Ki 6:38;</td>
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<tr>
<td></td>
<td>601</td>
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<td>Servitudes/Edges</td>
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<td></td>
<td>Mesopotamia 3:8</td>
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<td></td>
<td>Midhebron 3:12,14</td>
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<td>Canaanites 4:2,3</td>
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<td>Medians 6:1</td>
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<td>Ammonites 10:7,8</td>
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<td></td>
<td>Philistines 13:1</td>
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<td>-111</td>
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<tr>
<td>3)</td>
<td>Temple to the Edict of Artaxerxes</td>
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<tr>
<td></td>
<td>1 Ki 8:6-46</td>
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<tr>
<td></td>
<td>Neh 2:1</td>
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<td></td>
<td>Babylonian Captivity</td>
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<tr>
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<tr>
<td>4)</td>
<td>Artaxerxes to the Second Coming</td>
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<tr>
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<td>Artaxerxes to the 1st Advent</td>
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<td>&quot;The Sixty Nine Weeks&quot;</td>
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<td>[Church interval]</td>
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<td>The Seventieth Week</td>
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<tr>
<td></td>
<td>490 years</td>
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</table>
Major Prophetic Themes

- Israel
- Jerusalem
- Temple
- Babylon
- Russia (Magog)
- Rise of China
- Decline of the U.S.
- European SuperState
- Ecumenical Religion
- Global Government
- Rise of the Occult
  ...and UFO’s!

Our Challenge

We are being plunged into a period of time about which the Bible says more than about any other period in history

...including the time when Jesus walked the shores of Galilee and climbed the mountains of Judea.

The Ultimate Issue

- We are in possession of a message of extraterrestrial origin.
- It portrays us as objects of an unseen warfare.
- Our eternal destiny depends upon our relationship with the ultimate victor in this cosmic conflict.
- Where do you stand with respect to Him?

* * *

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Volume 4: Metacodes

What are the shocking discoveries that reveal our “digital” universe? What is the most frequently read “library” in the world? What is the code of life?

In this provocative briefing package, Chuck Missler, an internationally recognized authority, looks at the metacodes present in the world around us, revealing the most important cosmic code in the universe: Your own!

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Cosmic Codes
Volume 4: Metacodes

Our Digital Universe
“The entire universe is a cryptogram set by the Almighty.”
Sir Isaac Newton

An Overview
• The Anthropic Design.
• The Elusiveness of Infinity.
• Quantum Mysteries.
• The Universe as a Hyper-Hologram?
• The Decay of “c”?
• The Fracture of Genesis 3.

The Four Forces
• Gravity
• Electromagnetic Force
• Strong Nuclear Force
• Weak Nuclear Force

Gravity
• Causes an apple to fall to the ground.
• Keeps our feet on the floor.
• Binds together our Solar System.
• Keeps the Earth and planets in their orbits.
• Prevents the stars from exploding.
• Guides the galaxies in their motions.

Electromagnetic Force
• Holds the atom together.
• Determines the structure of the orbits of the electrons.
• Governs the laws of chemistry.
• Forms include X-rays, radio waves, and light.
• Can overcome gravity on Earth.
• Can dominate other forces down to the size of the nucleus of an atom.

Strong Nuclear Force
• Binds together the protons and neutrons in the nucleus of the atom.
• Balance between the strong force and electromagnetic forces limit a nucleus to about 100 protons.
• Energy released substantially greater than electromagnetic (chemical) force.
• Thus, stars shine; essential for life.

Weak Nuclear Force
• Governs atomic instability and radioactivity.
• Disintegration of heavier nuclei.
• Can create heat, such as the decay of radioactive elements in the Earth’s core, or in a nuclear power plant.

Anthropic Principle
• Teleonomic (purposeful) Design.
“It seems as though somebody has fine-tuned nature’s number to make the Universe... The impression of design is overwhelming.”
Paul Davies

Gravitational Coupling
• Stronger:
  – All stars more massive than our sun by 1.4 times; they burn too rapidly and too inconstantly to maintain life-supporting conditions on surrounding planets.
• Weaker:
  – All stars would have less than .8 times the mass of the sun: no heavy elements.

Electromagnetic Coupling
• Weaker:
  – Molecules for life cease to exist.
• Stronger:
  – Molecules for life cease to exist.

Strong Force Coupling
• If slightly weaker, multi-proton nuclei would not hold
Earth's Rotation Period
- Longer: Diurnal temperature differences would be too great.
- Shorter: Atmospheric wind velocities would be too great.

Axial Tilt
- Greater: Surface temperatures too great.
- Less: Surface temperature would be too great.

Albedo (Reflectivity)
- Greater: A runaway ice age would develop.
- Less: A runaway greenhouse effect would develop.

Earth's Magnetic Field
- Stronger: Electromagnetic storms would be too severe.
- Weaker: Inadequate protection from hard stellar radiation.

CO₂ and Water Vapor Levels
- Greater: A runaway greenhouse effect would develop.
- Less: The greenhouse effect would be insufficient.

Ozone Level
- Greater: Surface temperatures would be too low.
- Less: Surface temperature would be too high; too much UV radiation at the surface.

Thermodynamics
1st Law: Conservation of Matter, Energy “You can't win.”
2nd Law: The Bondage of Decay “You can't even break even.”

Conservation of Matter/Energy
- And on the seventh day God ended His work...
  Genesis 2:2-3
- The works were finished from the foundation of the world...
  Hebrews 4:3-4

Atomic Physics Factors
Electromagnetic coupling constant; nuclear force coupling constant; weak nuclear force coupling constant; ratio of electron to proton mass; stability of the proton; fine structure constants; Be, C, and O nuclear energy levels.

Sun Factors
Mass; color; distance from the earth; age; distance from center of galaxy.

Surface Gravity
- Weaker: Atmosphere would lose too much water.

Thickness of Earth’s Crust
- Thicker: Too much oxygen would be transferred from atmosphere to the crust.
- Thinner: Volcanic and tectonic activity would be too great.

Weak Force Coupling
- Larger: No helium; no heavy elements.
- Weaker: All helium; over abundance of heavy elements.

Ratio of Electron/Proton Mass
- Larger: Molecules would not form; life would be impossible.
- Smaller: Molecules would not form; life would be impossible.

Together: hydrogen would be the only element in the universe.
- If slightly stronger, nuclear particles would tend to bond together more frequently and more firmly: hydrogen would be rare in the universe, and the supply of various life-essential elements heavier than iron would be insufficient.


• All the things that are therein...you preserve them all.
  Nehemiah 9:6

The Bondage of Decay
• The shall perish... grow old as a garment...
  Psalm 103:25-26
• The earth will grow old like a garment...
  Isaiah 51:6
• Heaven and earth will pass away...
  Matthew 24:35

Thermal Decay
• Heat always flows from hot bodies to cold bodies.
• If the universe was infinitely old, the temperature throughout the universe would be uniform.
• It isn’t; therefore, it isn’t infinitely old.
• The universe had a beginning.
• And it is destined for an ending.

Measurements of “c”
• 17th century: Johannes Kepler, Rene Descartes, et al, believed light was instantaneous (“c” was infinite).
• 1677: Olaf Roemer measured elapsed time between eclipses of Jupiter with its moons, yielding a finite speed of light.
• 1729: James Bradley confirmed Roemer’s work.
• Over 300 years, measured 163 times by 16 different methods.

Setterfield-Norman Analysis
• 1677, Roemer, Io eclipse: 307,600 +/- 5400 km/sec
• 1875, Harvard, same method: 299,921 +/- 13 km/sec
• 1983, National Bureau of Standards, laser:
  299,792.4586 +/- 0.00003 km/sec

Properties of Space
• Permittivity
• Permeability
• Zero-point energy
• Intrinsic impedance

Our Digital Universe
• Mass, Length, Energy, Time, are made up of indivisible units: “quanta.”
  Beyond Perception...

The Mysteries of Quanta
• 1906: J. J. Thomson, Nobel Prize for proving electrons were particles.
• 1937: His son was awarded the Nobel Prize for proving electrons were waves.
• There is compelling evidence that quanta only manifest as particles is when we are looking at them.

Niels Bohr
• “Anyone who isn’t shocked by quantum physics has not understood it.”
• Behavior of particles imply all are interconnected.

If any of these properties change isotropically, then both atomic behavior and the velocity of light would vary throughout the universe.

Elusiveness of Infinity
• Boundaries of the macrocosm.
  – Singularity at the beginning.
  – Ultimate heat death at termination.
  – Astronomical Limits.
• Boundaries of the microcosm.
  – Limits to smallness: length, time, mass.
  – Non-locality.

Our Finite Boundaries
EPR Paradox
• Albert Einstein, Boris Podolsky, and Nathan Rosen, 1935, “Can Quantum-Mechanical Description of Physical Reality Be Considered Complete?”
  – Nothing can exceed the speed of light.
  – Niels Bohr is wrong.

Richard Feynman
“I think it is safe to say that no one understands quantum mechanics...In fact, it is often stated that of all the theories proposed in this century, the silliest is quantum theory. Some say that the only thing that quantum theory has going for it, in fact, is that it is unquestionably correct.”

David Bohm
• A protégé of Einstein’s and one of the world’s most respected quantum physicists.
• Landmark work in plasma physics.
• Believed that at the subatomic level location ceased to exist.

The Bell Inequality
• 1964: John Stewart Bell, CERN, Geneva, formulated a mathematical approach to demonstrating non-locality.
• 1982: Alain Aspect, Jean Dalibard, and Gérard Roger at the Institute of Theoretical and Applied Optics, Paris, conducted a landmark experiment.

The Two-Particle Experiment
• Twin photons from heating cesium atoms with lasers, each traveled in opposite directions through 6.5 meters of pipe to special polarization analyzers.
• Filters switched in 10 nanoseconds, 30 nanoseconds less than the 13 meters of travel between them.
• Photons did demonstrate non-locality.

Hyperspaces
• Nachmonides, 12th century.

Beyond Our Horizons
• Lorentz Transforms
• Fourier Transforms
• Holographic Models
  – The Word of God
  – The Holographic Universe?
  – The Mind of Man?

Communications Engineering
• The Bible as a Hologram
  – Fourier Transform Properties
  – Transcendent of Parallax

Source at Infinity

Every good gift and every perfect gift is from above, and cometh down from the Father of lights, with whom is no parallax [παραλλαγή], neither shadow of turning.  

James 1:17

Communications Engineering
• The Bible as a Hologram
  – Fourier Transform Properties
  – Transcendent of Parallax
• Spread-spectrum Design
  – Exploitation of entire bandwidth
  – Immunity to hostile jamming

Spread-Spectrum Design
For precept must be upon precept, precept upon precept; line upon line, line upon line; here a little, and there a little...

Isaiah 28:10
Cosmos = Hyper-Hologram?

- David Bohm:
  - “implicate order”—a deeper level of reality.
  - “explicate order”—our level of existence.
- Supporters
  - Roger Penrose, Oxford.
  - Bernard d’Espagnat, University of Paris.
  - Brian Josephson, Cambridge.

The Results of Genesis 3

- Did Adam live in only 3 dimensions?
- The Bondage of Decay?
- The Decay of “c”?
- The Fracture of the 10 dimensions into the physical and spiritual worlds?

The Mathematics of Chaos

- Two divisions of mathematics.
  - Deterministic
  - Stochastic
- True Randomness does not exist.
  - The Theory of Chaos

The Ultimate Adventure

- We discover that the universe itself is an object of finite digital design;
- That you and I have been placed here as part of that deliberate design;
- That our greatest opportunity is our response to this interval between the miracle of our origin and the mystery of our destiny...

DNA: The Code of Life

Wrist vs. Watch: Watch = simple open loop system.
Wrist:
- Complex closed loop servo system.
- Adapts to ambient conditions
- Fights off invaders.
- Self-repairing.

Bishop William Paley, 1818

- “The watch, with its gears, springs, and other mechanisms could never arise by the actions of random chance alone.”

Commentary on David Hume, 1779

- “Living systems only have the appearance of machines. Unless it can be proven that living systems are indeed machines at the molecular level, then Paley’s watchmaker argument is irrelevant.”

Modern Science

- Modern microbiology has revealed that even the simplest organisms are complex machines beyond our imagining.
- Science has refuted Hume and totally vindicated Paley.

Sir Fred Hoyle, 1981

The speculation of The Origin of the Species turned out to be wrong. It is ironic that the scientific facts throw Darwin out, but leave Paley ...the ultimate winner.

Open Loop System

Energy Source → Mechanism → Display
Closed Loop Systems

Adaptive Systems

Evolutionary Fallacy

- Self-organization violates the Entropy laws.
- Complex system assemblies require all subsystems to be functional for system survival.
- Tornado + junkyard = Jet Fighter?

Hierarchy of Design

- Open Loop Systems
- Closed Loop Systems
- Adaptive Systems
- Self-modifying Systems
- Intelligent Machines

Intelligent Machines

- Self-modifying Systems
- Self-programming Systems
- Self-diagnostic Systems
- Self-repairing Systems
- Self-reproducing Systems

The Code of Life: DNA

- 1953: Watson and Crick, Nature
  - Deoxyribonucleic acid (DNA)
  - Ribonucleic acid: RNA
- 1955: Sanger, complete chemical structure of protein, insulin.

Francis Crick

"An honest man, armed with all the knowledge available to us now, could only state that in some sense, the origin of life appears at the moment to be almost a miracle, so many are the conditions which would have had to have been satisfied to get it going."

Michael Denton, 1986

"Although the tiniest bacterial cells are incredibly small, each is in effect a veritable micro-miniatu- rized factory containing thousands of exquisitely designed pieces of intricate molecular machinery, made up of 100,000,000,000 atoms, far more complicated than any machine built by man and absolutely without parallel in the non-living world."

The ("Simple?") Cell

- Unparalleled complexity and adaptive design.
- Central memory bank.
- Assembly plants and processing units.
- Robot machines (protein molecules).
  - 3000 atoms each in 3-D configurations.
  - Hundreds of thousands of specific types.
A Model of the Simple Cell

- A model 1,000 million times larger:
  - Each atom the size of a tennis ball.
  - 10 billion atoms (10^13).
  - Over 10 miles in diameter.
  - 1/minute = 50 million years.

Automated Factories in the Cell

- Artificial languages and decoding systems.
- Memory banks for information storage.
- Elegant control systems regulating automated assembly of components.
- Prefabrication and modular construction.
- Error fail-safe and proofreading devices for quality control.

Technology Comparison

- Unequaled in any on earth.
- Capable of replicating its entire structure within a matter of a few hours.

The Role of Language

- Semantics
  - “One if by land; two if by sea.”
- Syntax
  - The Old North Church...
- Coordinated planning (design) or random accident (chance)?

Digital (Symbolic) Codes

- Digital Codes derive their meaning from arbitrary but consistent definitions (semantics).
- Digital codes are dependent upon their context (syntax).
- Digital codes evidence design.

Coding Structures

- Simplex Alphabets
- Error-Detecting Codes
- Error-Correcting Codes

The Codes of Life: DNA

- 3 billion rungs on the double-helix.
- *Digital*, *error-correcting*, code!
- Exploits advanced language design.
- Same design for all life.
- Multifunction machines change specialization as required.

Amino Acids

- Of the hundreds known, only 20 are utilized by living systems in the construction of proteins.
- Most proteins are a linear “sentence” of 100 - 500 amino acids long.
- Some hydrophobic (insoluble) in water and some are hydrophilic (soluble).

DNA

- Adenine
- Thymine
- Guanine
- Cytosine

<table>
<thead>
<tr>
<th>DNA</th>
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<tr>
<td>UUU</td>
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<td>Arginine</td>
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<tr>
<td>GUG</td>
<td>Cysteine</td>
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</tbody>
</table>

3 out of 4 Digital Code

- Sugar molecules (ribose or deoxyribose) bind the chemical alphabet;
Specificity

- Formula for linear arrangements,
  \[ N = \frac{n!}{p! \times q! \times r! \ldots} \]
- 10^650 permutations possible.
- Only one of them is hemoglobin.
  - (change just one of them = Hemoglobin Opathy)

Inefficiency of Chance

- Only 10^{18} seconds in the history of the universe.
- Only 10^{66} atoms in the universe.
- Only 10^{80} particles in the universe.
- Probabilities <10^{50} defines “absurd.”

The Human Brain

- 10^{10} nerve cells.
- Each with 10^4 - 10^5 connecting fibers.
- Approaches 10^{15} connections.

10^{15} Equivalent

- A forest 1/2 the size of the USA = 1 million square miles.
- 10,000 trees/sq. mile
- 100,000 leaves/tree.

The Human Brain Network

- A highly organized network of uniquely adaptive communication channels.
- If only 1% of the connections were specifically organized pathways, it would still represent a greater number of connections than the entire communications network on the Planet Earth.

Memory Mapping

- Wilder Penfield: Memories have specific locations in the brain.
- Karl Pribran: Memories not localized.
- Paul Pietsch: 700 operations on salamanders confirm Pribran.
- John von Neumann: Capacity: 2.8 x 10^{20} bits (1000 bits/sec for 10 billion years).

Chemical Composition: Hemoglobin

- Glycine 36
- Alanine 68
- Serine 31
- Tyrosine 30
- Proline 25
- Valine 56
- Isoleucine 1
- Leucine 69
- Phenylalanine 28
- Threonine 14
- Tryptophan 4
- Cysteine 5
- Methionine 6
- Asparagine 47
- Glutamine 29
- Arginine 12
- Histidine 32
- Lysine 43
- Amide N* 38

*includes Aspartic & Glutamic acids
Fourier Transforms

- Hermann von Helmholtz: ear processes by a frequency analyzer.
- Holographic models only way to explain neurophysiological puzzles:
  - pattern recognition.
  - transference of learned skills.
  - phantom limbs, etc.

Further Conjectures

- Discerning internal vs. external realities?
- Imagination, inspiration, creativity go beyond storage, recall, and processing;
- Hyperdimensional transfer function to other dimensions beyond our consciousness?

Technology of Resurrection

- We are made of 17+ elements.
  - Same ones as the “Dust of the ground.”
  - Atoms themselves are fungible.
- Jurassic Park suggested that all that is needed is a sample of DNA to recreate a living creature.

Software Development Path

```
  Application Generator
   ↓
  Compilers
   ↓
  Assemblers
   ↓
  Machine Language
```

Physics of Software

- Software has no mass.
- Software is not constrained by time.
  - Time is a physical property and varies by mass, acceleration and gravity.
- The “real you” is also software, temporarily resident in hardware.

Your True Nature

- The real YOU is software, not hardware.
- The real you has no mass.
- The real you has no time dimension.
- You are eternal, whether you want to be or not.

The Ultimate “Code”

- There appears to be hidden codes throughout the Word of God...
- The “Ultimate Code” is YOU!
- Is your name written in the Book of Life?
- You won’t be able to tell by searching with computers; you simply need to respond to Him...

Bibliography

This briefing package was excerpted from the book Cosmic Codes—Hidden Messages from the Edge of Eternity by Chuck Missler, available through Koinonia House, 1-800-KHOUSE-1.

Also in the “Cosmic Codes” Briefing Package Series:

- Volume 1: The History of Cryptography
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