



James 1:2-4,12

2 Consider it pure joy, my brothers, whenever you face trials of many kinds, 3 because you know that the testing of your faith develops perseverance. 4 Perseverance must finish its work so that you may be mature and complete, not lacking anything.... 12 Blessed is the man who perseveres under trial, because when he has stood the test, he will receive the crown of life that God has promised to those who love him.

HUPOMONE

Perseverance takes a long-term perspective.

It focuses on the future,
rather than the
immediate present.

Why is it so important?

**Because it
takes time to
discover the
true nature of
things.**

Romans 5:3-5

We rejoice in our sufferings because we know that suffering produces perseverance, perseverance, character, and character hope. And hope does not disappoint us because God has poured out His love into our hearts by the Holy Spirit whom He has given us.

Luke 9:23

Then he said to them all: “Whoever wants to be my disciple must deny themselves and take up their cross daily and follow me.

Luke 9:23

Then he said to them all: “Whoever wants to be my disciple must **deny** themselves and take up their cross daily and follow me.

is against our
own “Will” and
is against my
own “SELF”

Luke 9:23

Then he said to them all: “Whoever wants to be my disciple must deny..... and follow me.

ALWAYS
DENY
YOURSELF



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perseverance



perseverance



perseverance

How Do
You
Feel?



perseverance



perseverance

Luke 9:23

Then he said to them all: “Whoever wants to be my disciple must deny themselves and take up their cross daily and follow me.



perseverance



perseverance



perseverance

1 Cor 15:36-38

What a foolish question! When you put a seed into the ground, it doesn't grow into a plant unless it dies first. And what you put in the ground is not the plant that will grow, but only a bare seed of wheat or whatever you are planting. Then God gives it the new body he wants it to have. A different plant grows from each kind of seed.

John 12:24 (NASB)

"Truly, truly, I say to you, unless a grain of wheat falls into the earth and dies, it remains alone; but if it dies, it bears much fruit"

If there's
NO Death
there'll be
NO Growth

GROWTH

is NOT

an option

it is a

COMMAND

$$2 + 2 = 4$$

Choose Correct Answer!

$$7 + 7 \div 7 + 7 \times 7 - 7$$

a: 00

b: 08

c: 50

d: 56

$$1) \quad 2(x + 5) = 16$$

$$2) \quad 3(t + 1) = 18$$

$$3) \quad 2(3y - 5) = 14$$

$$4) \quad 4(3t - 2) = 88$$

$$5) \quad 2(3x + 1) = 11$$

$$6) \quad 6(3k + 5) = 39$$

$$7) \quad 9(3x - 5) = 9$$

$$8) \quad 3(t + 7) = 15$$

$$9) \quad 5y + 4 = 3y + 6$$

$$10) \quad 5t + 3 = 2t + 15$$

$$11) \quad 6k + 5 = 2k + 1$$

$$12) \quad 8s - 1 = 6s - 5$$

$$13) \quad 5(x - 2) = 3(x + 4)$$

$$14) \quad 3(h - 6) = 2(5 - 2h)$$

$$15) \quad 2(5c + 2) - 2c = 3(2c + 3) + 7$$

$$v_s(t) = e^{-4t} \cdot \cos(3t) \cdot u(t), \quad V_s(s) = \frac{(s+4)}{(s^2 + 16s + 25)} \quad (3.30)$$

$$V_c(s) = \frac{6(s+4)}{(s^2 + 16s + 25)[s^2 + 5s + 6]}$$

$$= \frac{3}{65} \left[\frac{20}{s+2} - \frac{13}{(s+3)} - \frac{7(s+4) + 36}{(s^2 + 16s + 25)} \right]$$

$$\therefore v_c(t) = \frac{3}{65} \cdot [20 \cdot e^{-2t} - 13 \cdot e^{-3t}] u(t) \quad (3.32)$$

$$- \frac{3}{65} \cdot [e^{-t} 2 \cdot \{9 \cdot \sin(3t) + 7 \cdot \cos(3t)\}] u(t) \quad (3.33)$$

- Transform the voltage equation of the equivalent circuit model into a standard control oriented second order difference equation:

$$\begin{aligned}
 V(k) &= V_{oc} + I(k)R_{ohm} + V_{dl}(k) + V_{df}(k) \\
 &= (a_1 + a_2)V(k-1) - a_1a_2V(k-2) + R_{ohm}I(k) + [b_1 - b_2 - R_{ohm}(a_1 + a_2)]I(k-1) \\
 &= (a_1a_2R_{ohm} - b_1a_2 - b_2a_1)I(k-2) + (1 - a_1 - a_2 + a_1a_2)V_{oc} \\
 &= [\theta_1, \theta_2, \theta_3, \theta_4, \theta_5, \theta_6]^T [V(k-1), V(k-2), I(k), I(k-1), I(k-2), 1]
 \end{aligned}$$

where $a_1 = e^{-\Delta/R_{ct}C_{dl}}$, $b_1 = R_{ct}(1 - e^{-\Delta/R_{ct}C_{dl}})$, $a_2 = e^{-\Delta/R_{df}C_{df}}$, $b_2 = R_{df}(1 - e^{-\Delta/R_{df}C_{df}})$

- The parameters to be estimated are

$$\begin{aligned}
 \theta_1 &= a_1 + a_2 \\
 \theta_2 &= -a_1a_2 \\
 \theta_3 &= R_{ohm} \\
 \theta_4 &= b_1 - b_2 - R_{ohm}(a_1 + a_2) \\
 \theta_5 &= a_1a_2R_{ohm} - b_1a_2 - b_2a_1 \\
 \theta_6 &= (1 - (a_1 + a_2) + a_1a_2)V_{oc}
 \end{aligned}$$

- The open circuit voltage is

$$V_{oc} = \theta_6 / (1 - \theta_1 - \theta_2)$$

James 1:4

**Perseverance must finish
its work so that you may
be mature and complete,
not lacking anything**

Gal 5:13-26

13 You, my brothers and sisters, were called to be free. But do not use your freedom to indulge the flesh ; rather, serve one another humbly in love. 14 For the entire law is fulfilled in keeping this one command: “Love your neighbor as yourself.” 15 If you bite and devour each other, watch out or you will be destroyed by each other.

Gal 5:13-26

16 So I say, walk by the Spirit, and you will not gratify the desires of the flesh. 17 For the flesh desires what is contrary to the Spirit, and the Spirit what is contrary to the flesh. They are in conflict with each other, so that you are not to do whatever you want. 18 But if you are led by the Spirit, you are not under the law.

Gal 5:13-26

19The acts of the flesh are obvious: sexual immorality, impurity and debauchery; 20idolatry and witchcraft; hatred, discord, jealousy, fits of rage, selfish ambition, dissensions, factions 21and envy; drunkenness, orgies, and the like. I warn you, as I did before, that those who live like this will not inherit the kingdom of God.

Gal 5:13-26

22But the fruit of the Spirit is love, joy, peace, forbearance, kindness, goodness, faithfulness, 23gentleness and self-control. Against such things there is no law. 24Those who belong to Christ Jesus have crucified the flesh with its passions and desires. 25Since we live by the Spirit, let us keep in step with the Spirit. 26Let us not become conceited, provoking and envying each other.

The MORE of “SELF”

The LESS of God,

The MORE of God

The LESS of “SELF”

Psalm 97:10

Let those who love the LORD
hate evil, for he guards the lives
of his faithful ones and delivers
them from the hand of the
wicked.

**GROWTH
IS A
MUST**