

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



فضای سایبر

جلسه ۲۱

# فضای سایبر و انسان

Cyberspace and Human

کاظم فولادی قلعه  
دانشکده مهندسی، دانشکدگان فارابی  
دانشگاه تهران

<http://courses.fouladi.ir/cyber>

فضای سایبر و انسان



انسان  
(بشر)

# اتیمولوژی «هیومن»



\*(dh)ghomon-

PIE

earthling, earthly being



humanus

Latin

of man, human; humane,  
philanthropic, kind, gentle, polite;  
learned, refined, civilized



humain, umain

Old French

of or belonging to man



humain, humaigne

mid-15c.

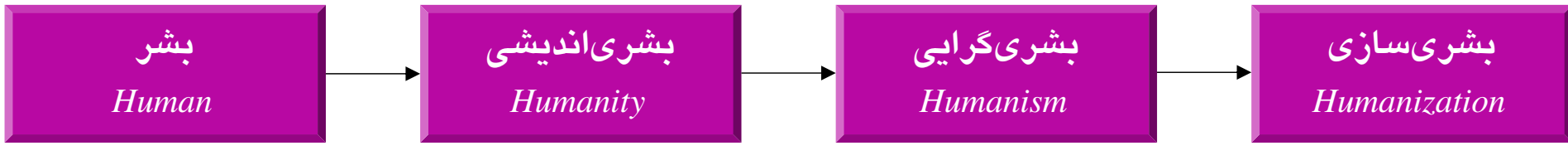
human



human (adj.)

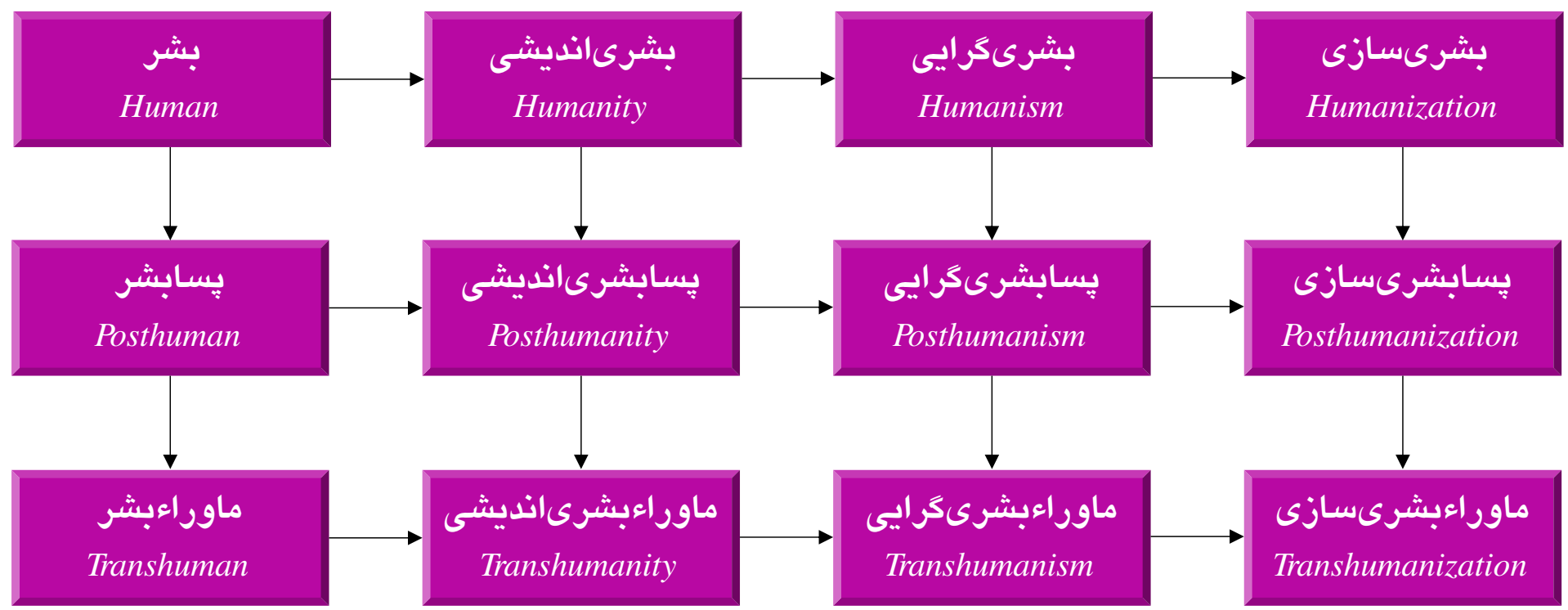
# از «بشری‌اندیشی» تا «بشری‌سازی»

## FROM HUMANITY TO HUMANIZATION



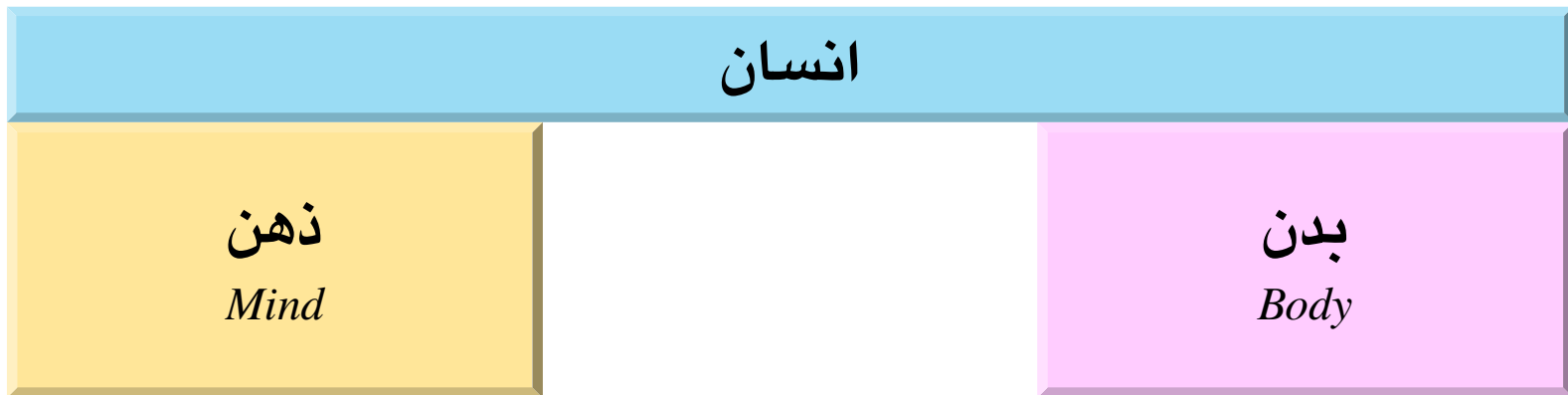
از «بشری‌گرایی» تا «ماوراءبشری‌سازی»

FROM HUMANISM TO TRANSHUMANIZATION

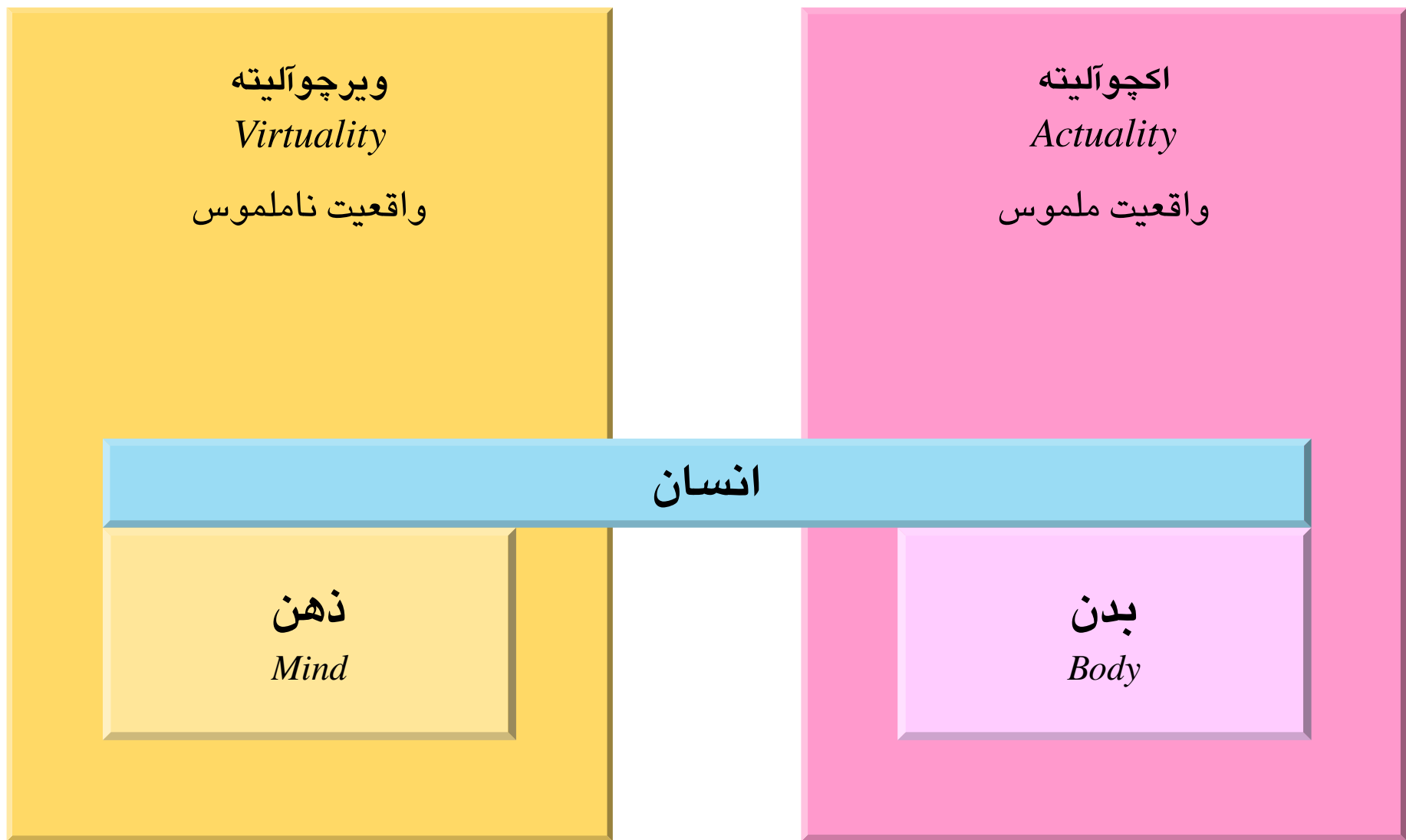


## انسان

دوگانه‌ی ذهن و بدن

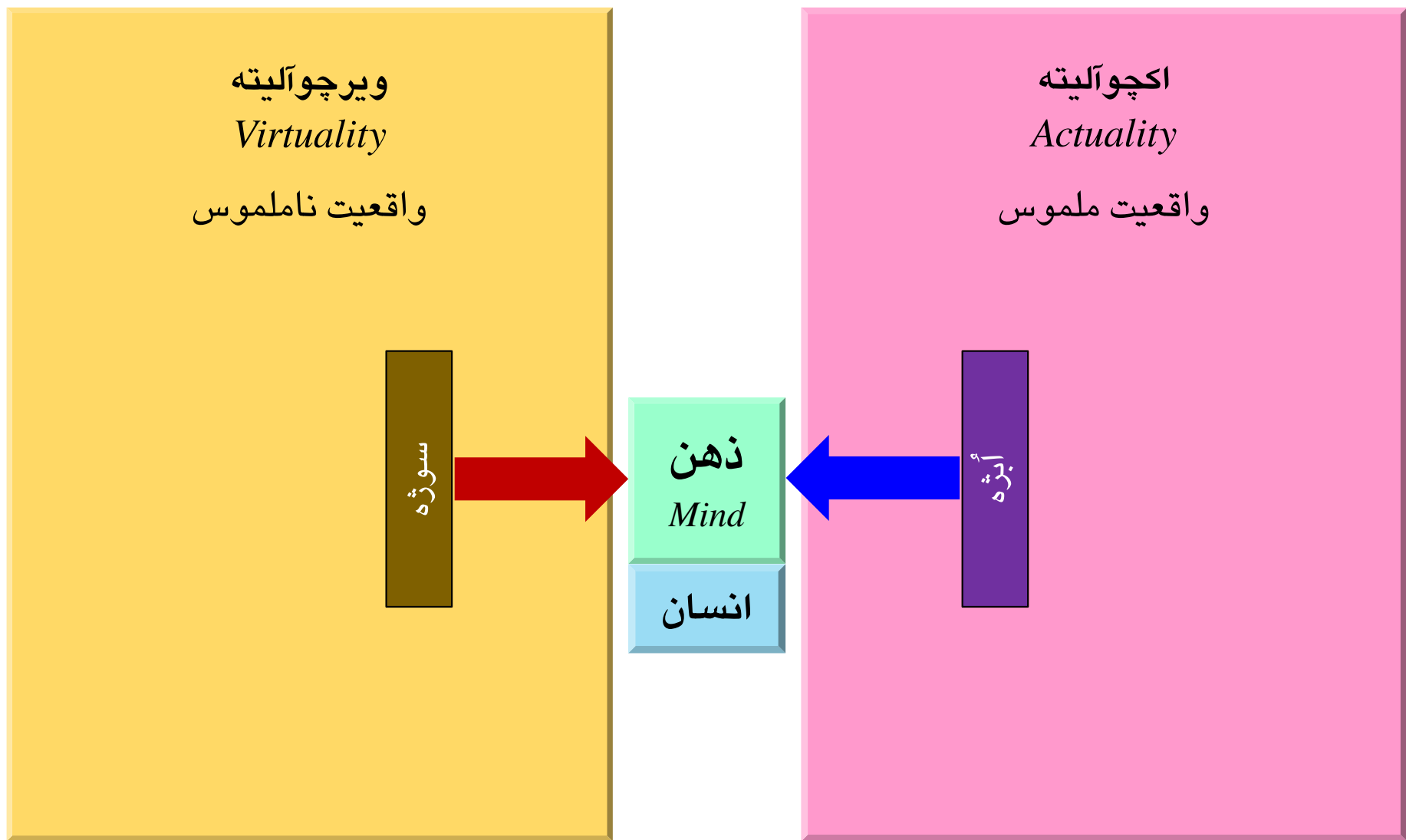


# ذهن - بدن در نسبت ویرچوآلیته - اچوآلیته



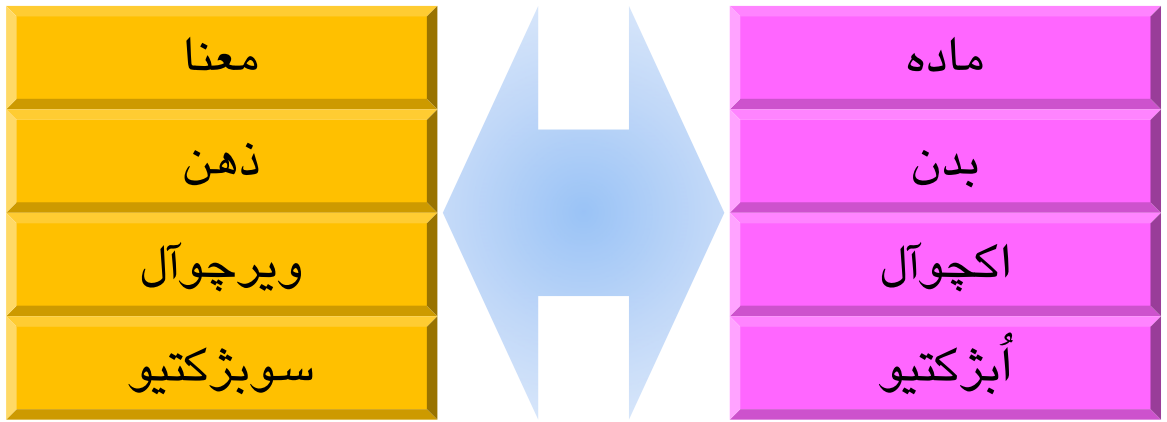


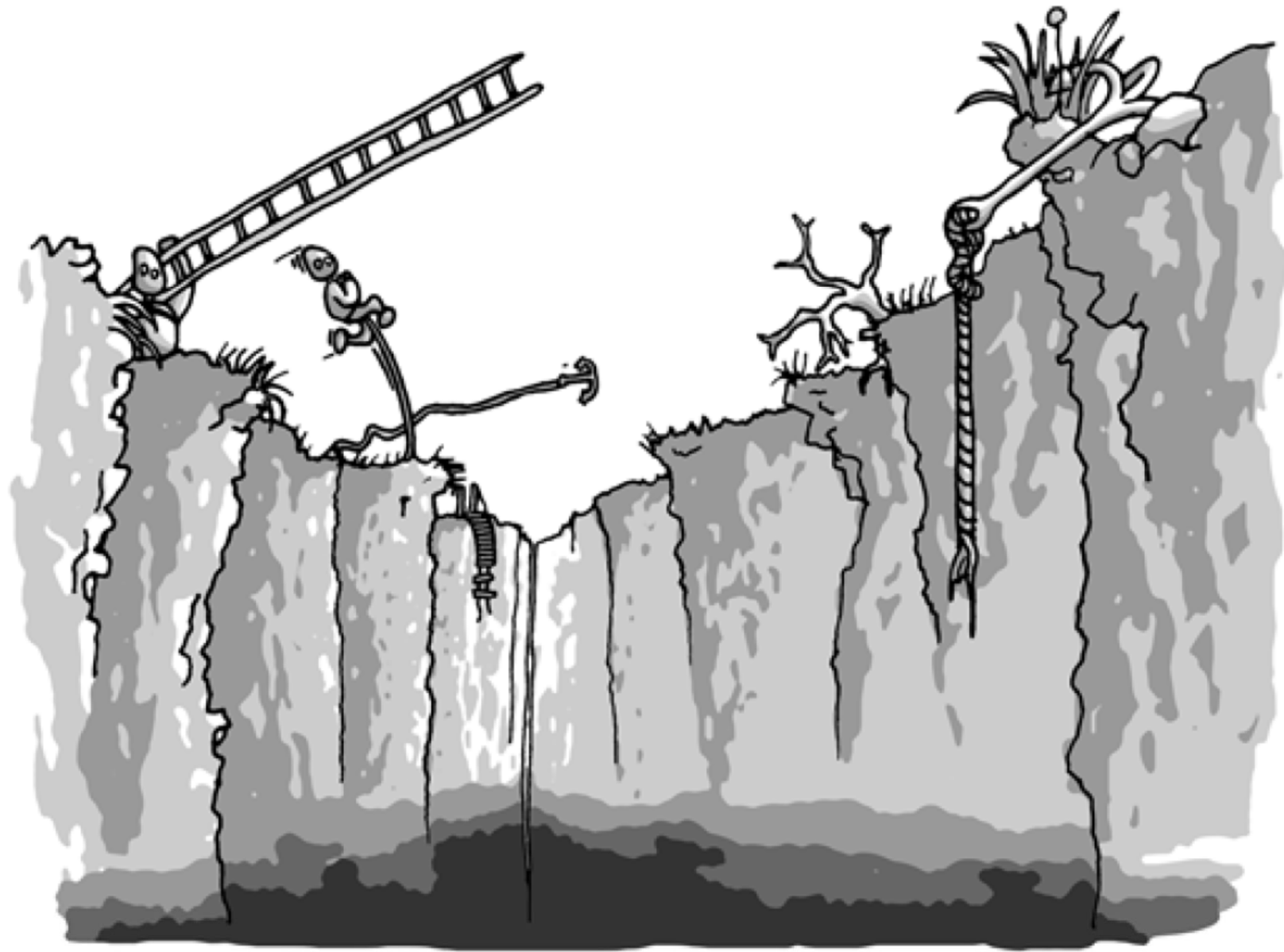
سوژه - اُبژه در نسبت ویرچوآلیته - اچوآلیته



# شکاف معرفتی

دوگانه‌های فلسفی





**1. No one has yet succeeded in bridging the fathomless abyss, the great chasm or the explanatory gap between inner and outer, mind and brain, or subjective and objective.**

# DUALISM vs MONISM

**Cartesian Duality:**  
MATTER-MIND



KEY:

Physical and Mental substance  
is either fundamental or derivative.  
(solid line) (dashed line)

**Physicalism:**  
MATTER > Mind



**Idealism:**  
Matter < MIND



**Neutral Monism:**  
3rd SUBSTANCE  
> Matter & Mind



فضای سایبر و انسان

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جایگاه  
انسان  
در  
فضای سایبر

## فضای سایبر و انسان



بخش  
کنترل کننده  
*Controlling Part*

بخش  
کنترل شونده  
*Controlled Part*

انسان

ذهن

بدن

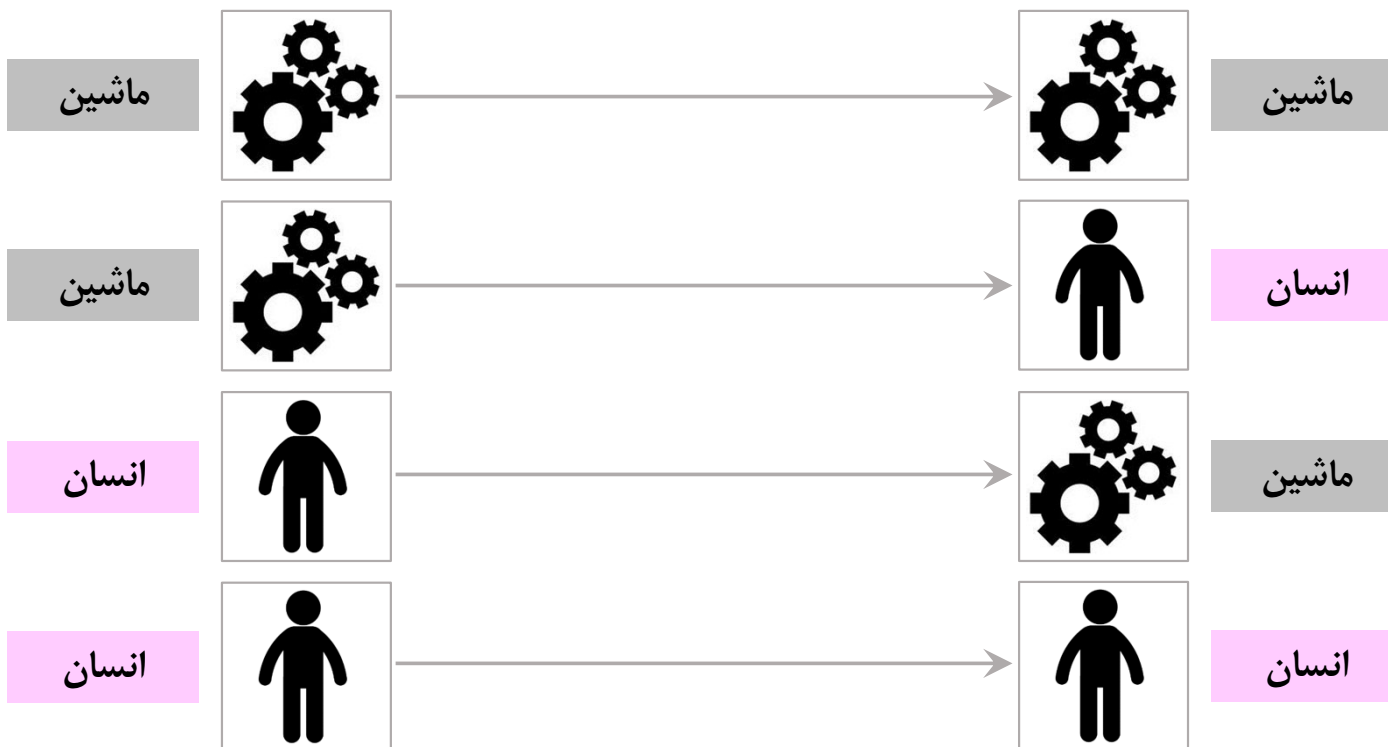
Cognitive Sc.

Biology

انسان / ماشین در جایگاه کنترل کننده / کنترل شونده

بخش  
کنترل کننده  
*Controlling Part*

بخش  
کنترل شونده  
*Controlled Part*



## مدل پیشنهادی مطالعه‌ی فضای سایبر

دنیا

*World*

انسان

*Human*

کاربرد

*Application*

زیرساخت

*Infrastructure*



## مدل پیشنهادی مطالعه‌ی فضای سایبر

جایگاه انسان

انسان به‌عنوان «بخشی از دنیا»	دنیا <i>World</i>
انسان به‌عنوان «کاربر»	انسان <i>Human</i>
انسان در نسبت با «کاربرد»	کاربرد <i>Application</i>
انسان به‌عنوان «زیرساخت»	زیرساخت <i>Infrastructure</i>

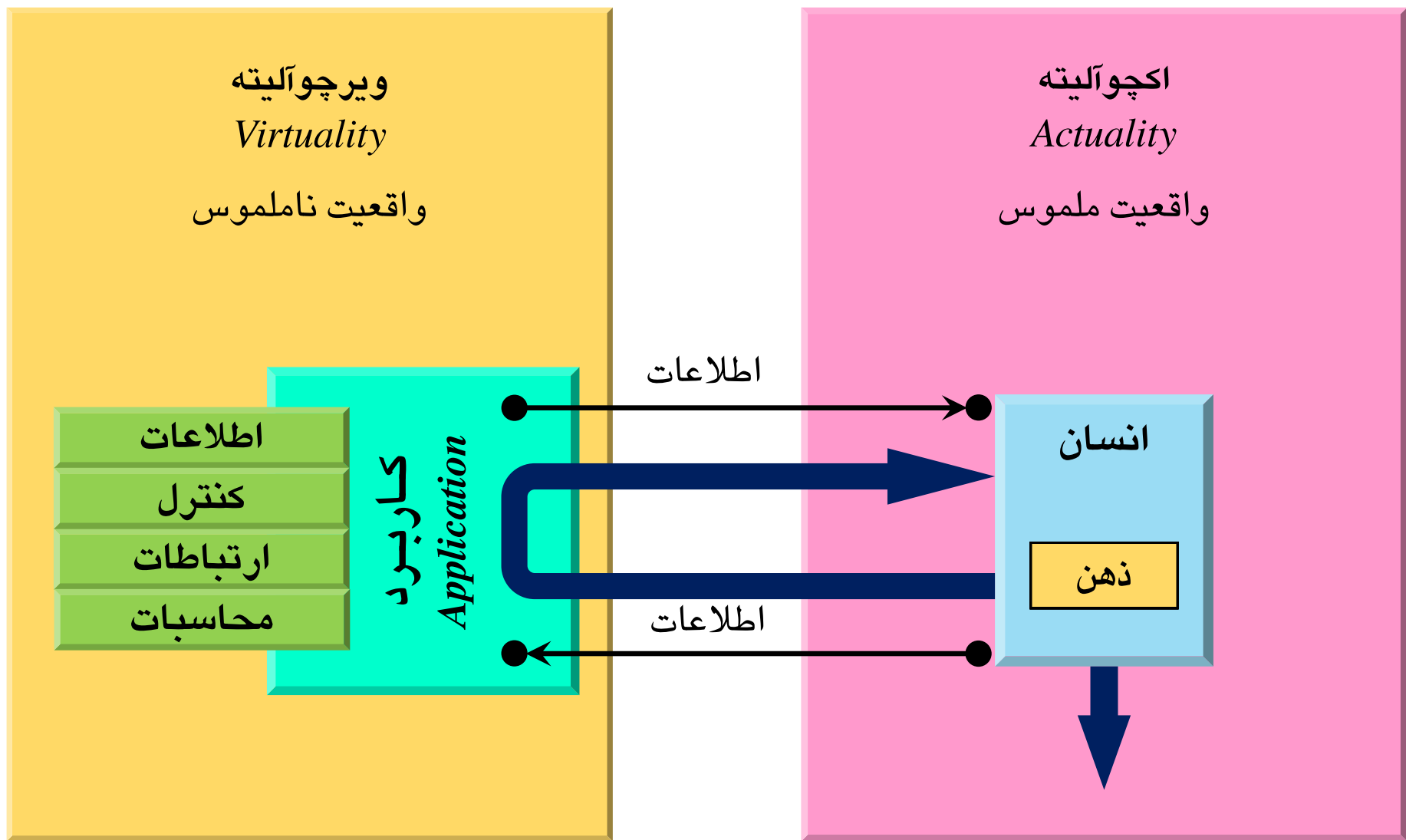
فضای سایبر و انسان

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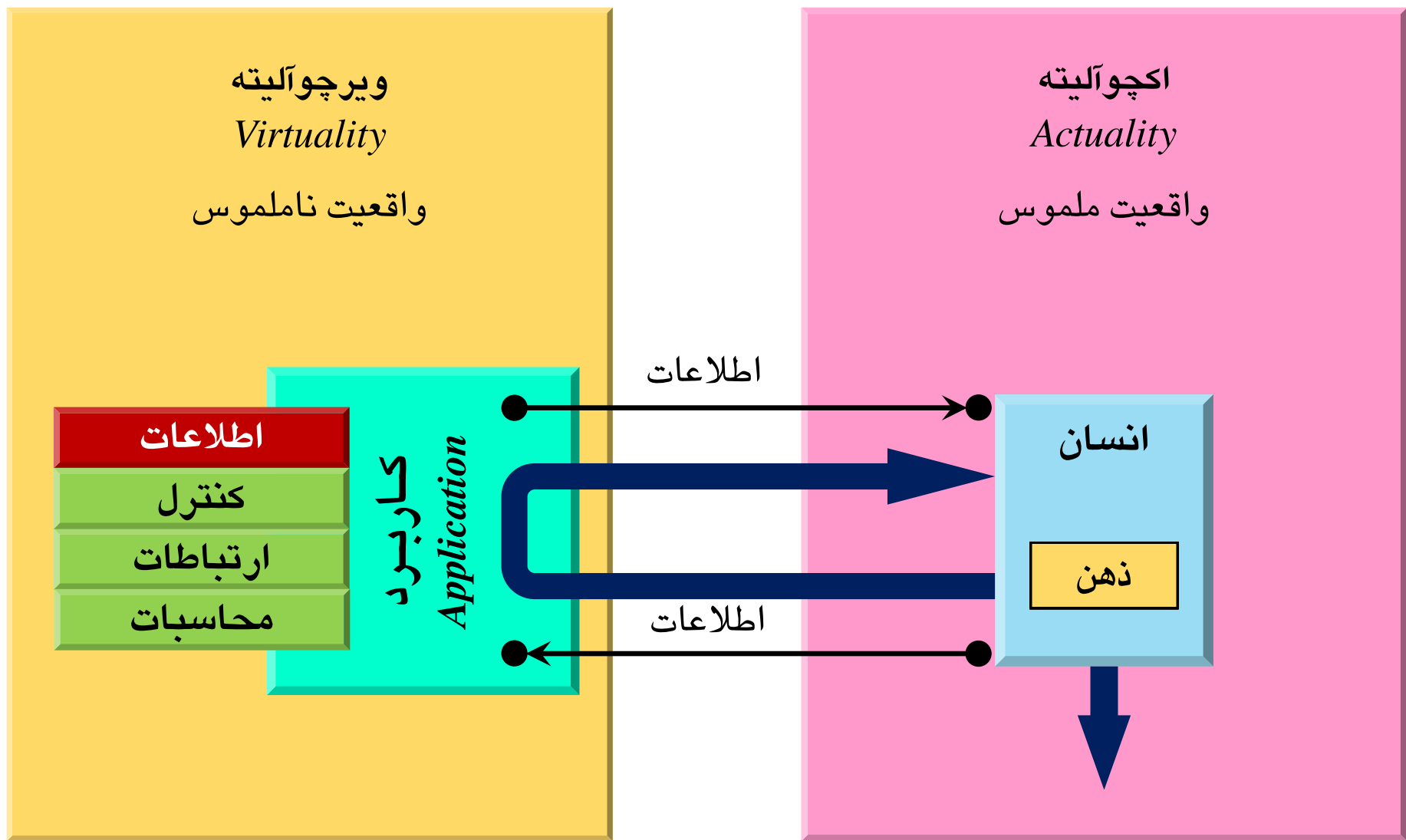
توانمندی  
انسان  
و  
فضای سایبر

# انسان به مثابه «واقعیت ملموس»

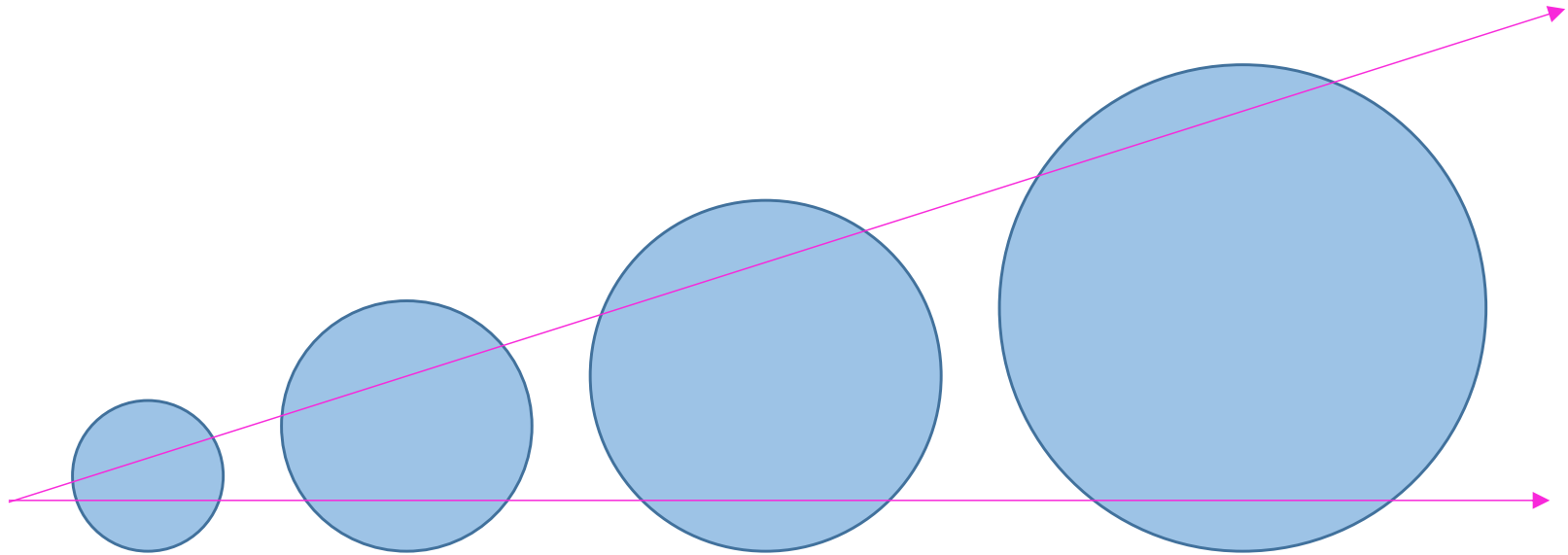
حامل واقعیت ناملموس «ذهن»



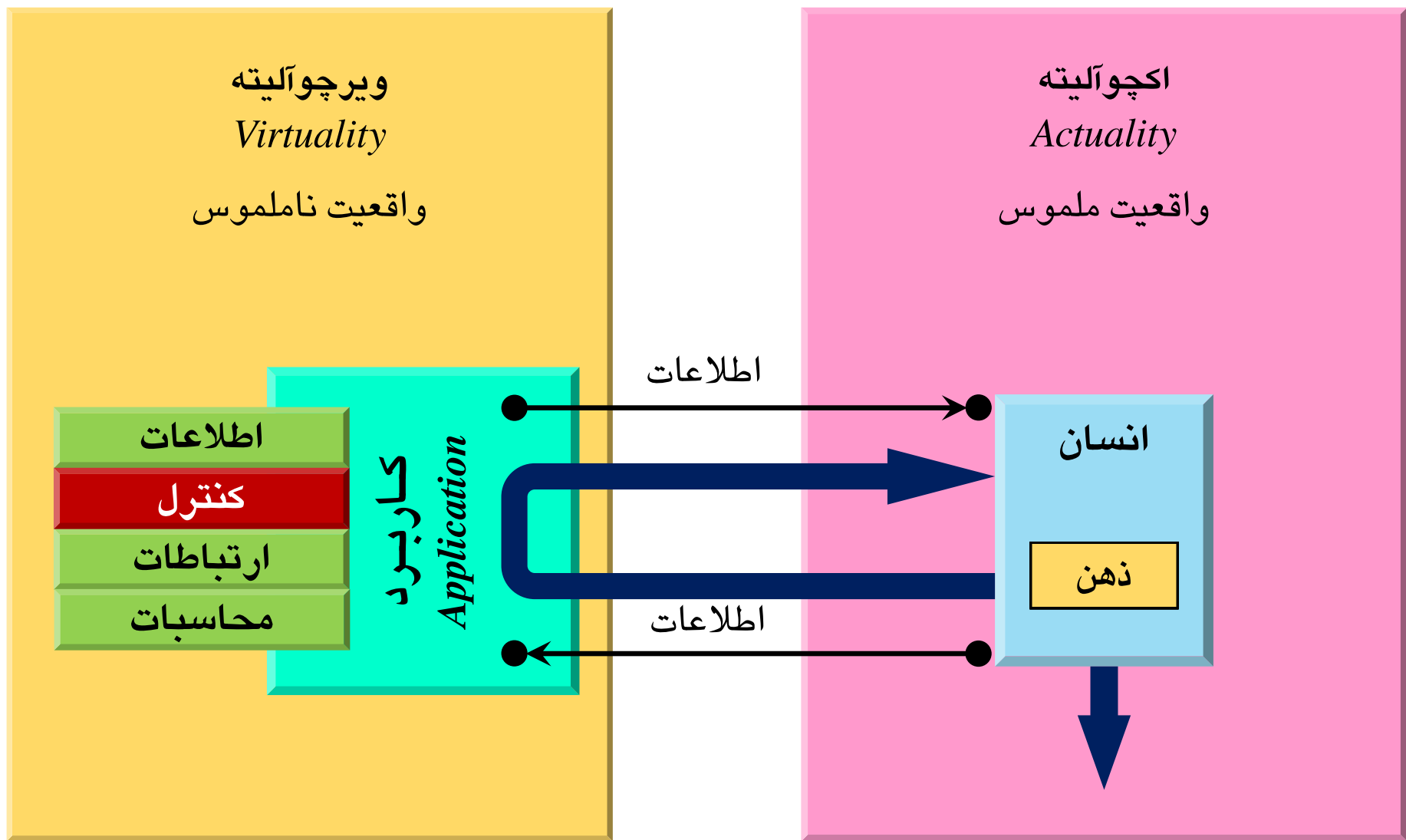
گسترش «اطلاعات» برای انسان با استفاده از فضای سایبر



## ولع اطلاعاتی

INFORMATION GREED

گسترش توانمندی «کنترل» برای انسان با استفاده از فضای سایبر



## کنترل - انسان فعال - انسان منفعل

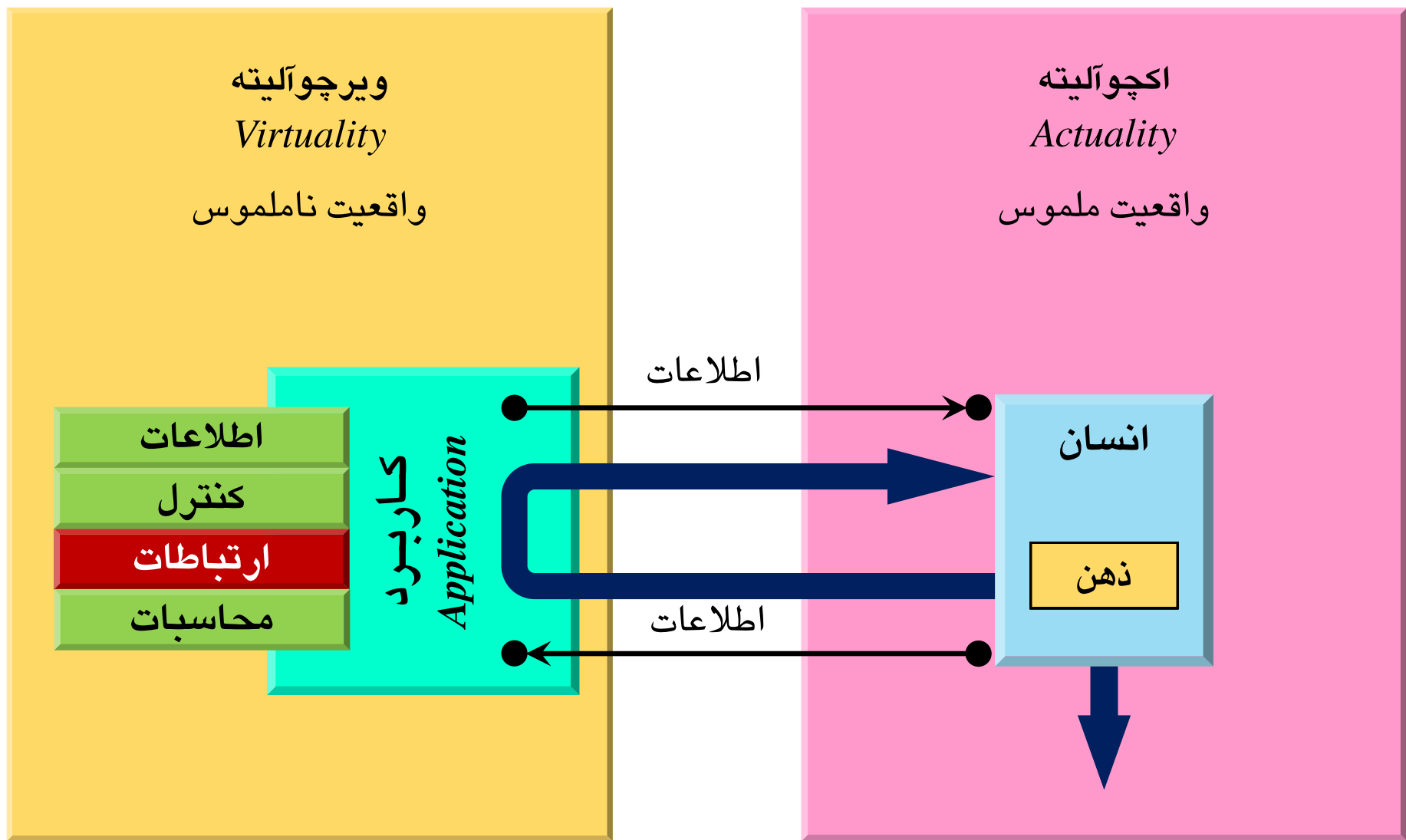
انسان فعال

گسترش کنترل کنندگی

انسان منفعل

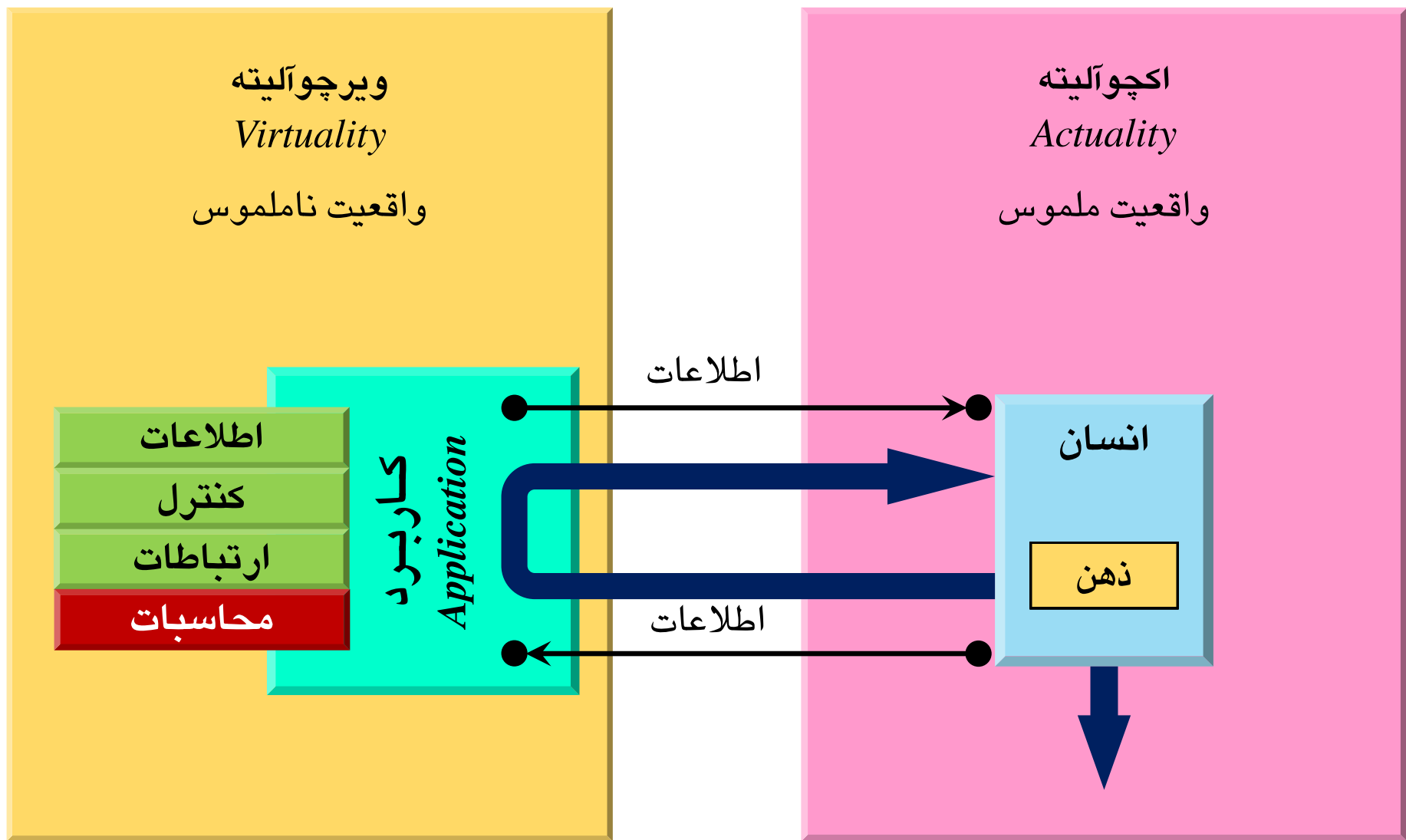
گسترش کنترل شونده‌گی

گسترش توانمندی «ارتباطات» برای انسان با استفاده از فضای سایبر





گسترش توانمندی «محاسبات» برای انسان با استفاده از فضای سایبر



فضای سایبر و انسان

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انسان  
سایبورگ  
(بایوسایبورگ)

## انسان بایوسایبورگ

BIOCYBORG HUMAN

## انسان بایوسایبورگ

سیستم تکنولوژیکی

+

سیستم بیولوژیکی



# Cyborgs and space

**Altering man's bodily functions to meet the requirements of extraterrestrial environments would be more logical than providing an earthly environment for him in space . . . Artifact-organism systems which would extend man's unconscious, self-regulatory controls are one possibility**

*By Manfred E. Clynes and Nathan S. Kline*

ROCKLAND STATE HOSPITAL, ORANGEBURG, N. Y.



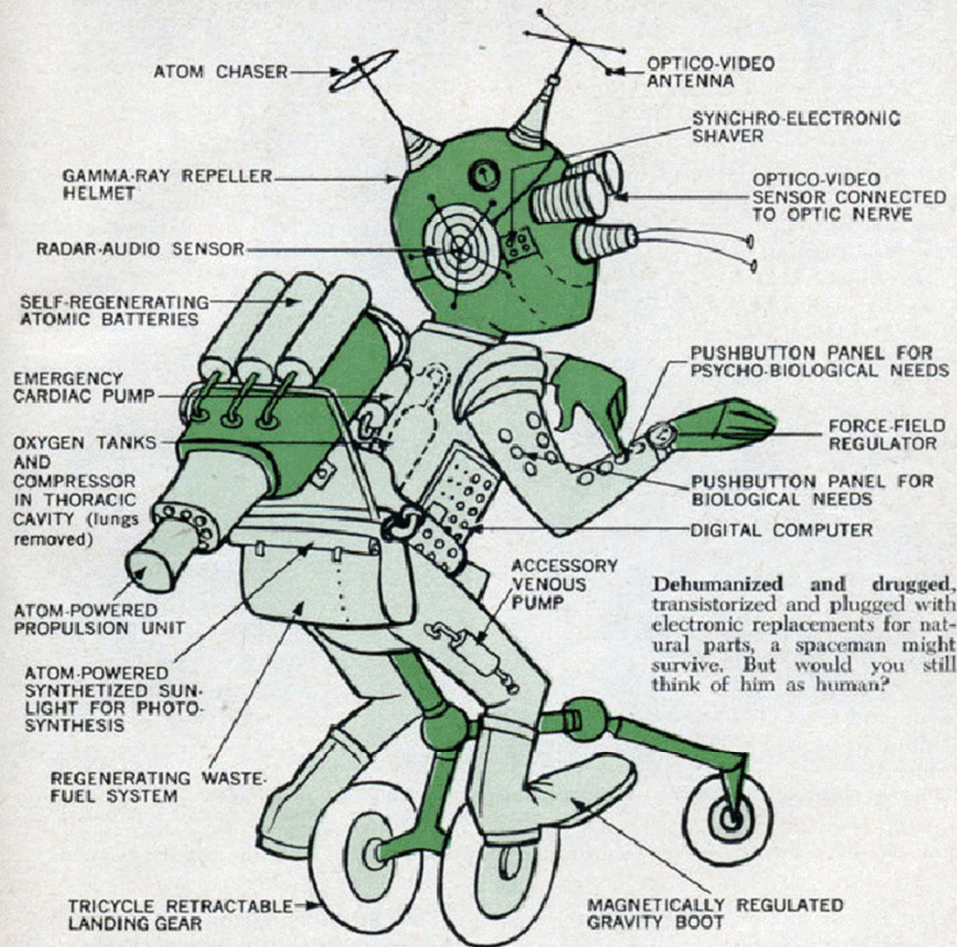
Clynes

Kline

**S**PACE travel challenges mankind not only technologically but also spiritually, in that it invites man to take an active part in his own biological evolution. Scientific advances of the future may thus be utilized to permit man's existence in environments which differ radically from those provided by nature as we know it.

The task of adapting man's body to any environment he may choose will be made easier by increased knowledge of homeostatic functioning, the cybernetic aspects of which are just beginning to be understood and investigated. In the past evolution

# Must Tomorrow's Man Look Like This?



By Toby Freedman, M.D., and Gerald S. Lindner, M.D.

No electronic plug-ins needed, say these two doctors. Man's own capacity for adaptation, with help from science, can fit him for new ways of life

THE design of vehicles is one of the oldest and noblest arts of mankind. Look at a model of a prehistoric Polynesian canoe. It's as hydrodynamically elegant and functionally beautiful as the X-15. The wheel, the ski, the kayak, the sports car—pure

# VAN DAMME

(The Star of "Bloodsport")



He's the First Hero of the 21st Century...And He's Our Only Hope.

# CYBORG

CANNON ENTERTAINMENT, INC. PRESENTS A GOLAN-GLOBUS PRODUCTION AN ALBERT PYUN FILM "CYBORG" STARRING JEAN CLAUDE VAN DAMME - DEBORAH RICHTER - VINCENT KLYN AND DAYLE HADDON AS "SAR, RESPECT"  
MUSIC BY JIMI SAAD AND TONY RIPARETTI ASSOCIATE PRODUCER TOM KARNOVSKI WRITTEN BY KITTY CHALMERS PRODUCED BY MENAHEM GOLAN AND YORAM GLOBUS DIRECTED BY ALBERT PYUN

**CANNON**  
RELEASING CORPORATION

**R** RESTRICTED  
PARENTS STRONGLY CAUTIONED  
SOME MATERIAL MAY BE INAPPROPRIATE FOR CHILDREN UNDER 17

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DUPLICATE  
CANNON ENTERTAINMENT

# CYBORG COP



CYBORG COP is a thrilling mix of sci-fi thrills and martial arts-style action starring David Bradley ('American Ninja'), Alano Shaw ('Double Impact'), John Rhys-Davies ('Indiana Jones') and Rufus Swart ('Dust Devils').



A power-mad scientist has embarked on a terrifying series of experiments which transform his human victims into fearsome high-tech cyborgs... half-man, half-robot warriors that will kill on his command.

His deranged plan is to build an invincible army of futuristic robo-killers programmed to eliminate the world's leaders, then to sell them to the highest bidder.



A mysterious package from his missing brother and the discovery of a string of mutilated, faceless corpses has drawn undercover agent Jack



Ryan into a deadly struggle between Man and Machine. Let the battle commence...



**18** Suitable only for persons of 18 years and over

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VHS **CYBORG COP**

HI-FI STEREO

**18** MO390

**DAVID BRADLEY**



with **JOHN RHYSDAVIES** as **KESSEL**

A FILM BY **SAM FIRSTENBERG**

**CYBORG COP** **18**

He was programmed to kill... Nobody can stop him...



NEWM WORLD PRODUCTION PRESENTS A SAM FIRSTENBERG FILM "CYBORG COP" STARRING DAVID BRADLEY • JOHN RHYSDAVIES • ALANO SHAW • EDUARD GIER • TONY OJEDA WRITTEN BY ALAN PATRICK DIRECTED BY SAM FIRSTENBERG PRODUCED BY JOSEPH WERNER U.S.C. EXECUTIVE PRODUCERS ART LINDNER • TONY OJEDA EDITOR BRUCE LUTHER MUSIC BY GARRY LORNER EXECUTIVE PRODUCERS SAM FIRSTENBERG

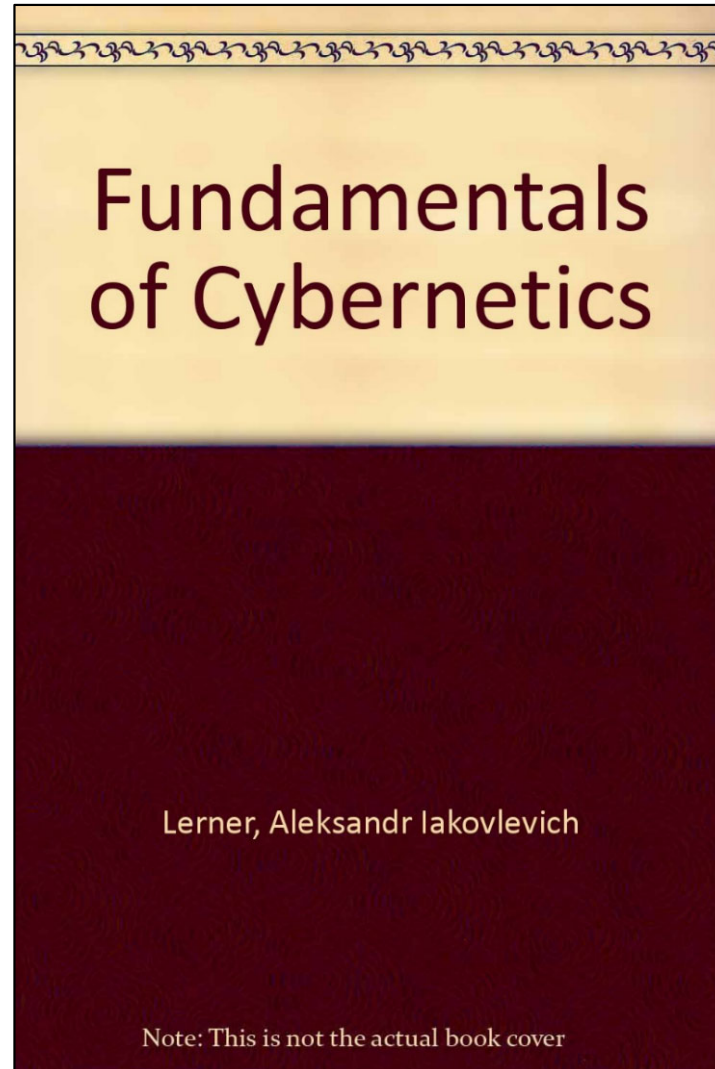


فضای سایبر و انسان

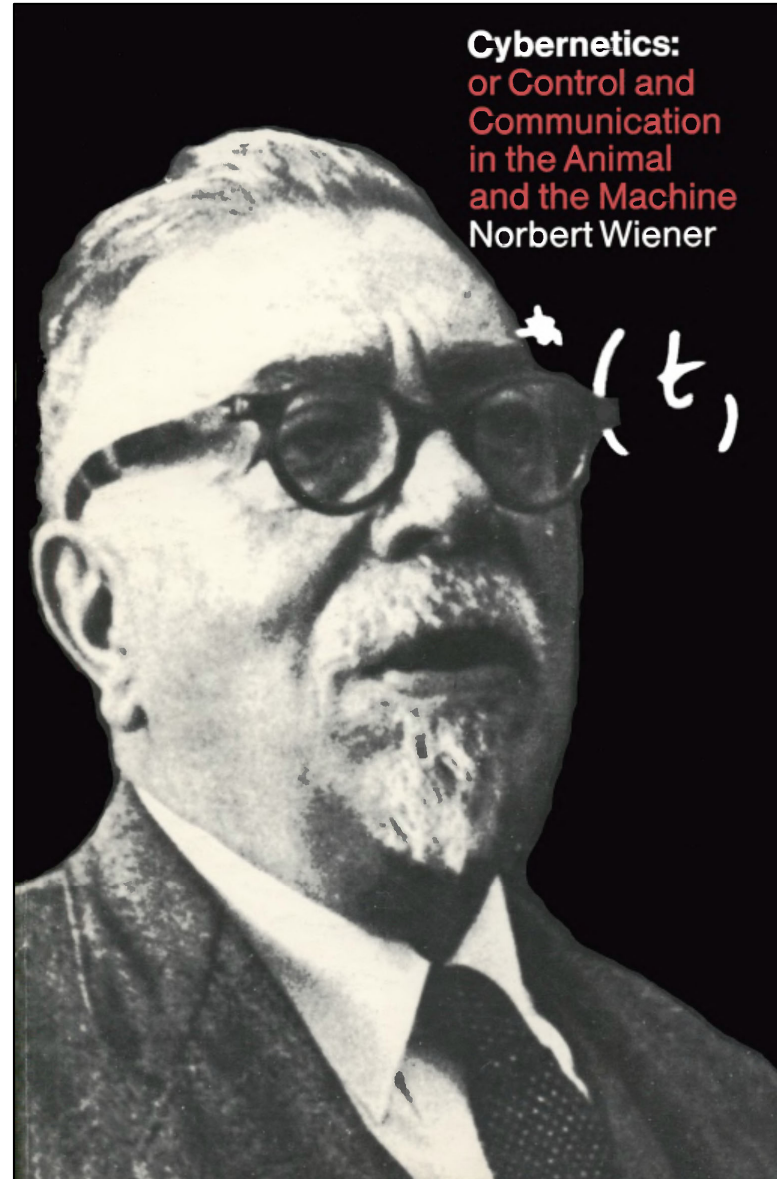
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منابع  
و  
مراجع

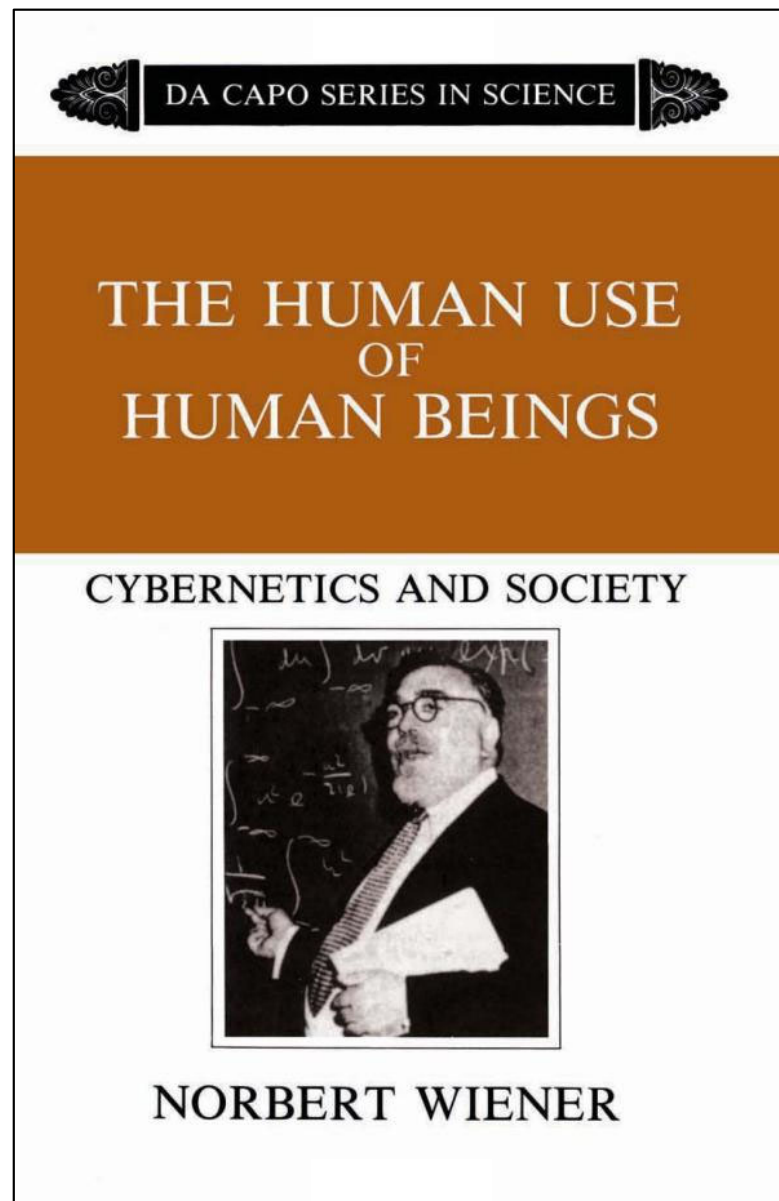
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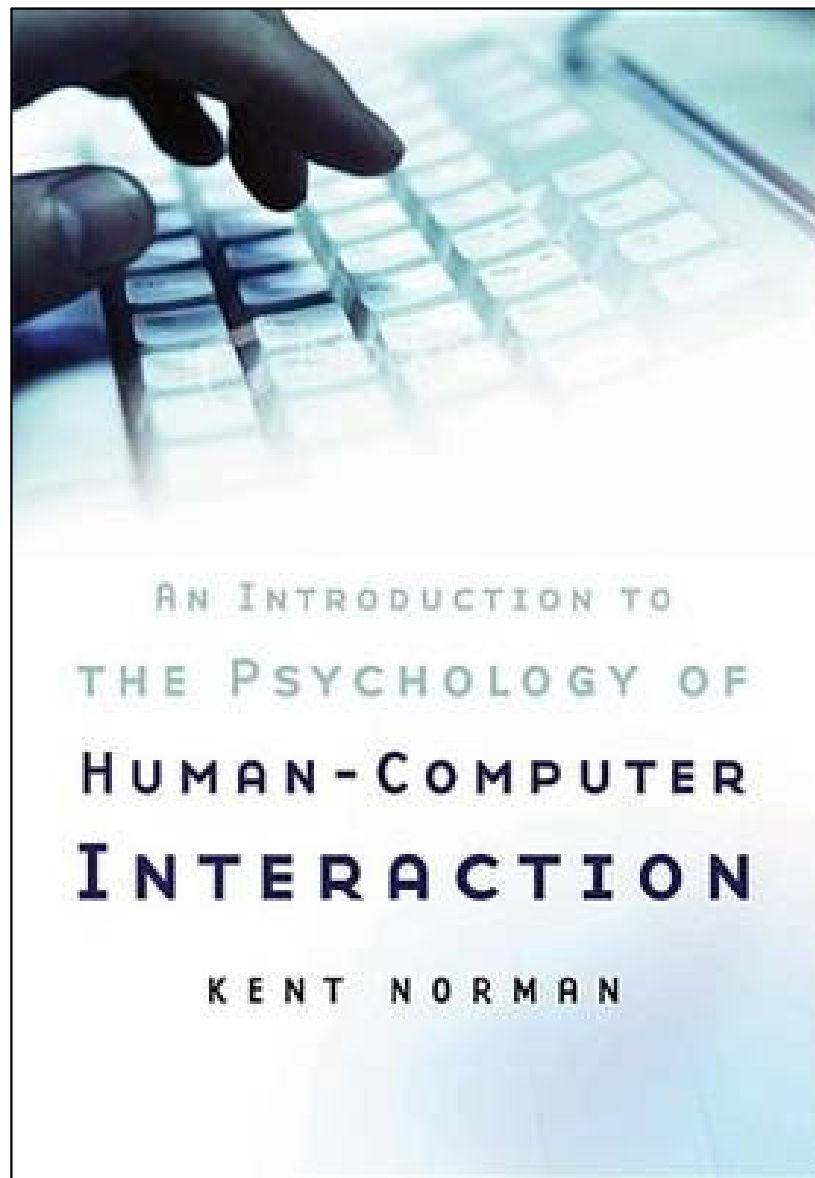
## کتاب مرجع



کتاب مرجع

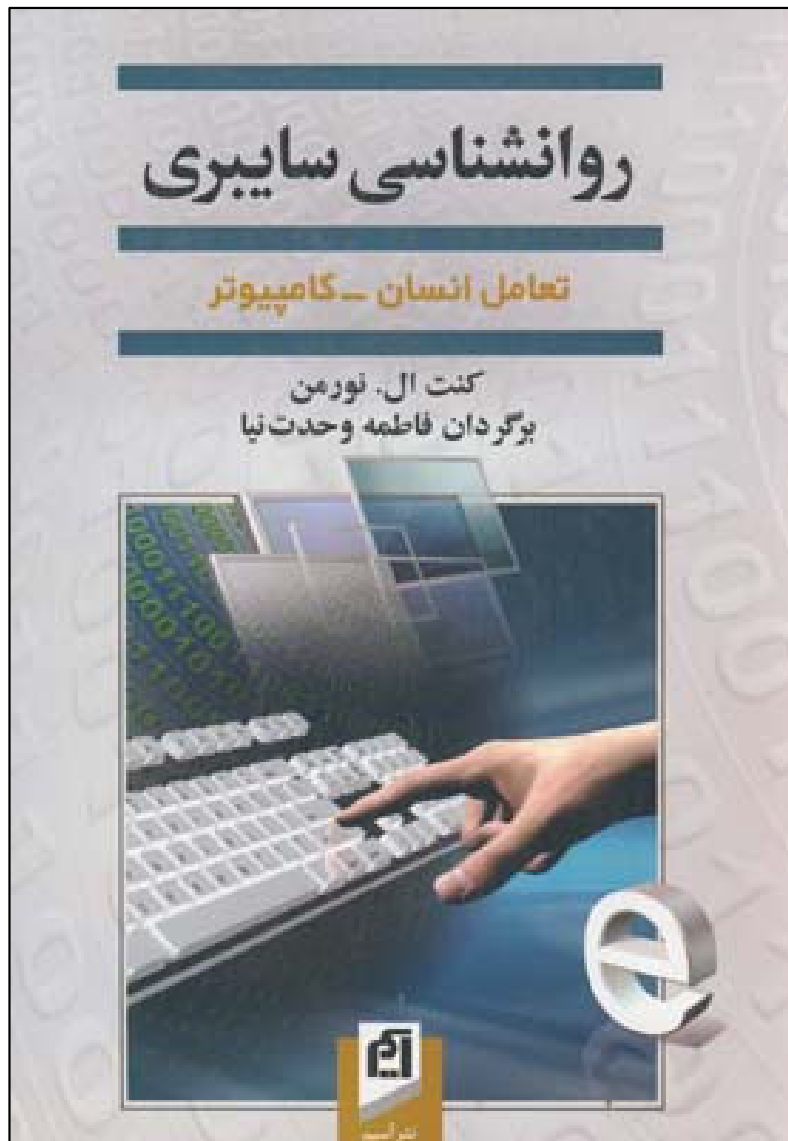
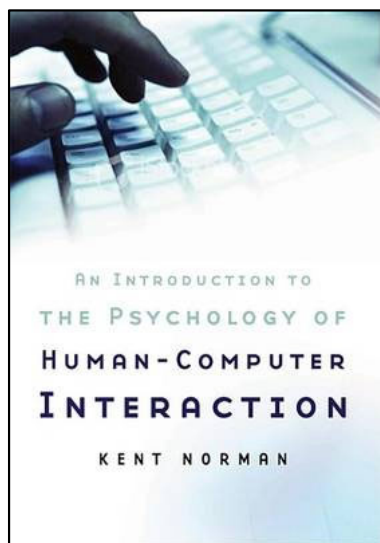


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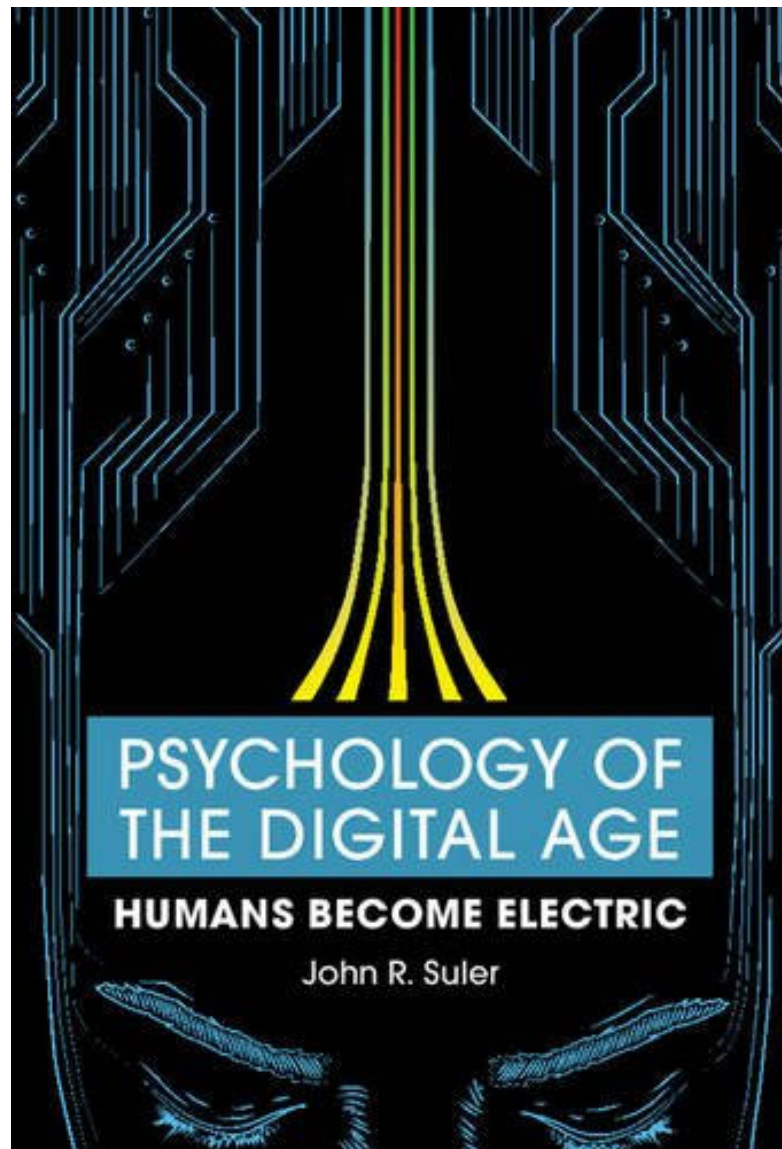


AN INTRODUCTION TO  
THE PSYCHOLOGY OF  
HUMAN-COMPUTER  
**INTERACTION**  
KENT NORMAN

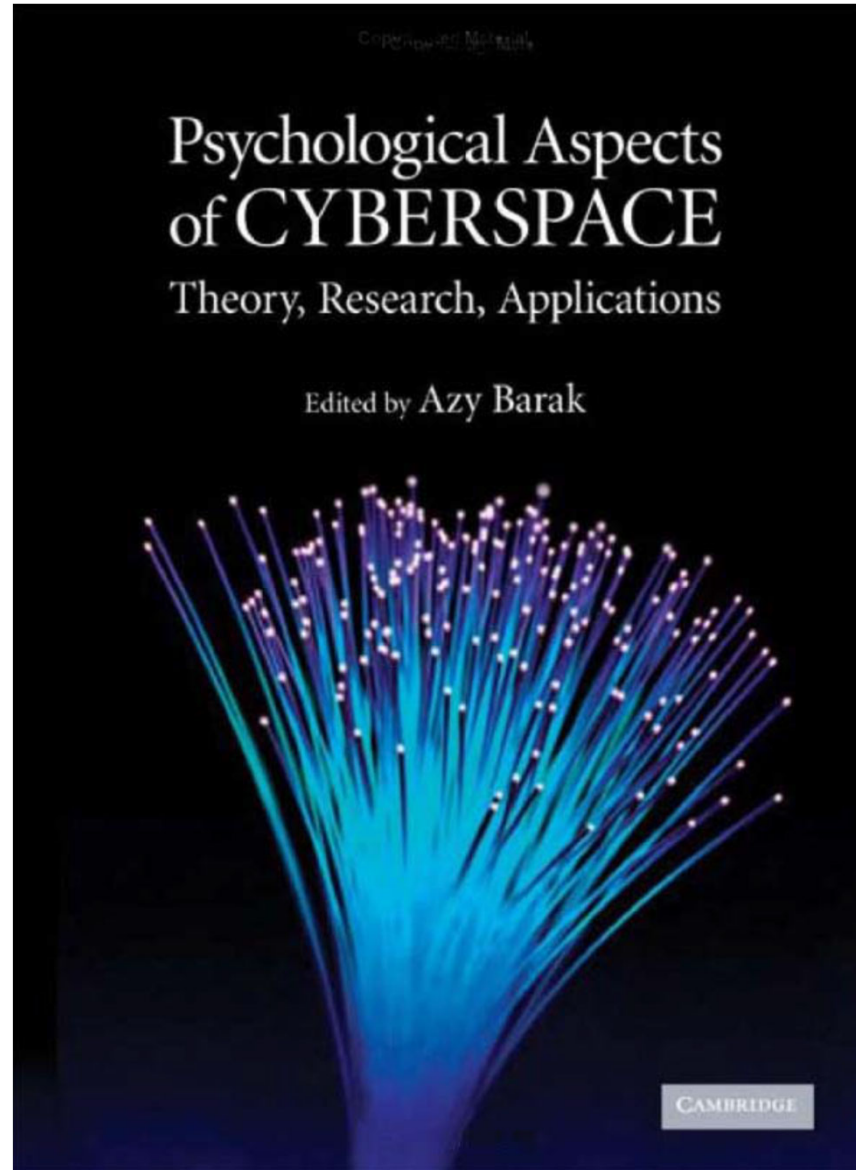
# کتاب مرجع



کتاب مرجع



## کتاب مرجع





## کتاب مرجع

# The Psychology of Cyberspace

The Classic Text

**John Suler, Ph.D.**

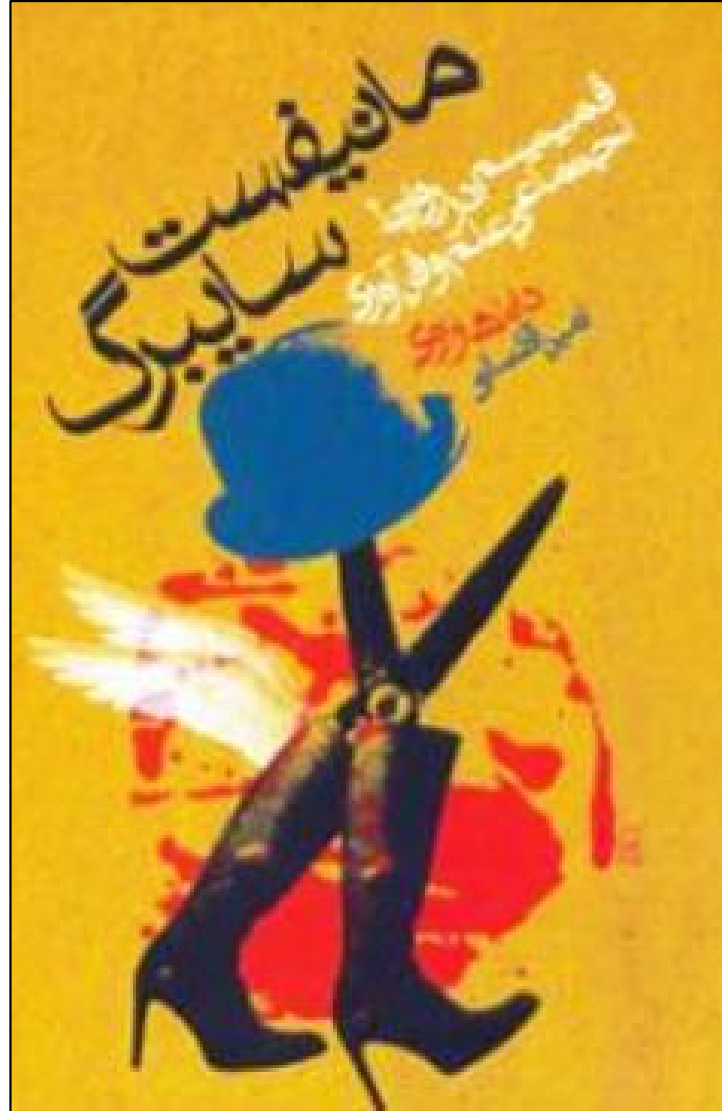
Department of Psychology  
Science and Technology Center  
Rider University

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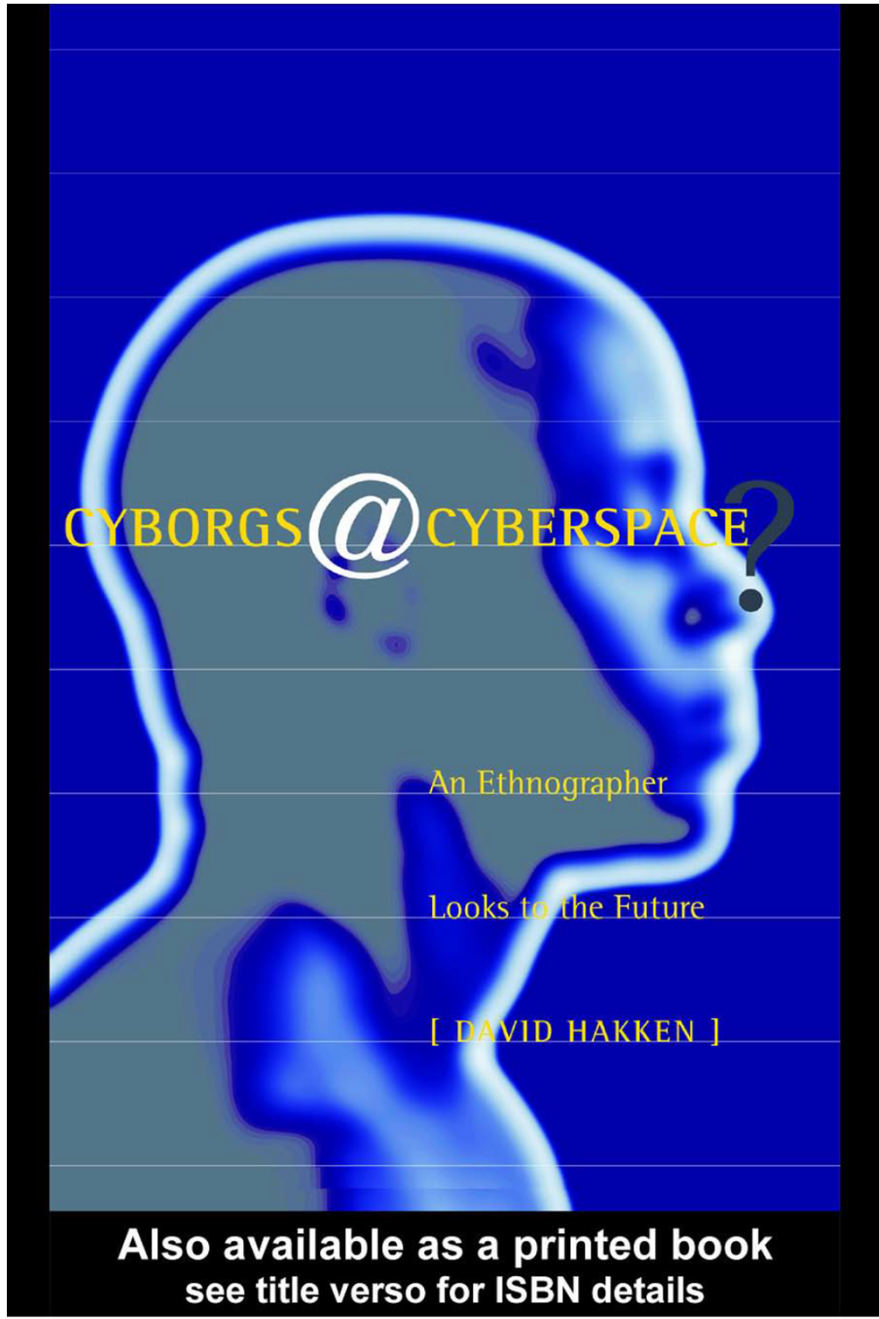


**A CYBORG MANIFESTO:**  
**SCIENCE, TECHNOLOGY, AND SOCIALIST-FEMINISM**  
**IN THE LATE TWENTIETH CENTURY**

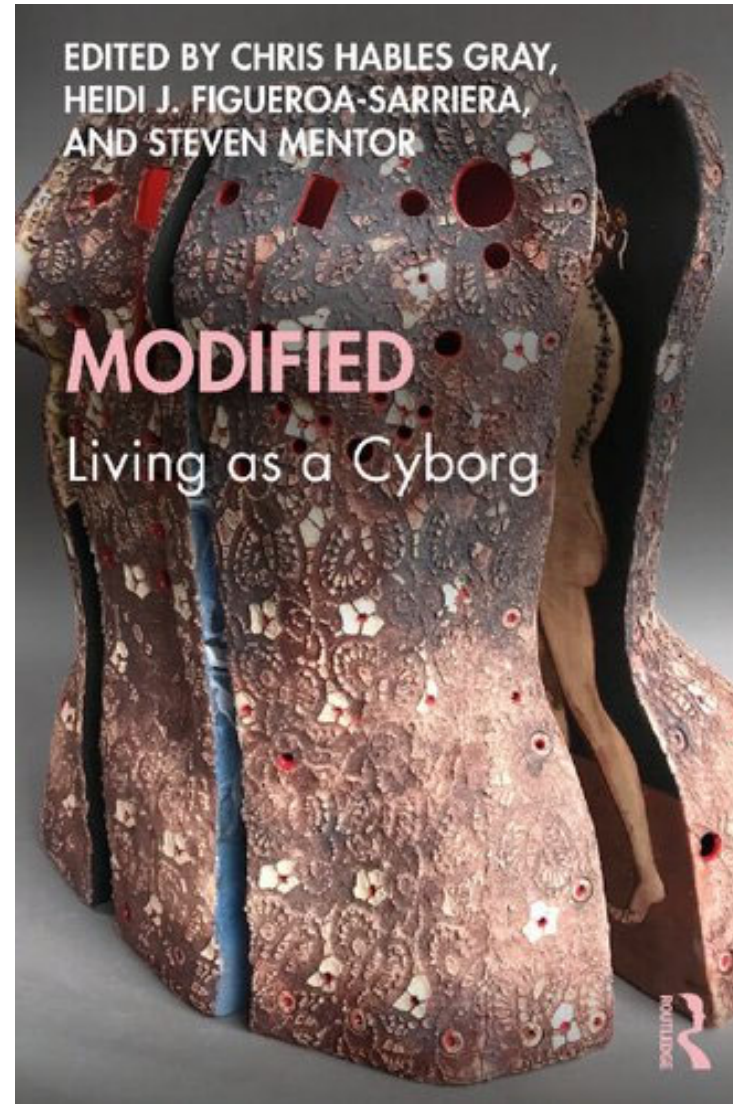
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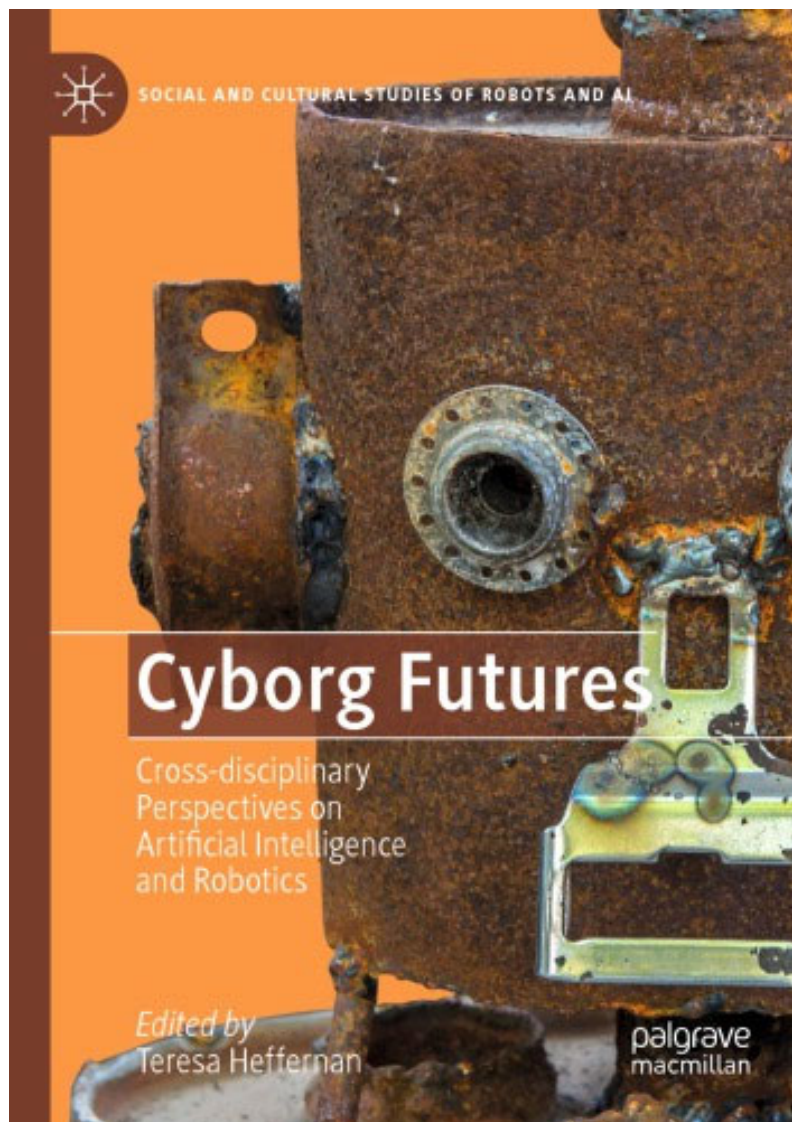
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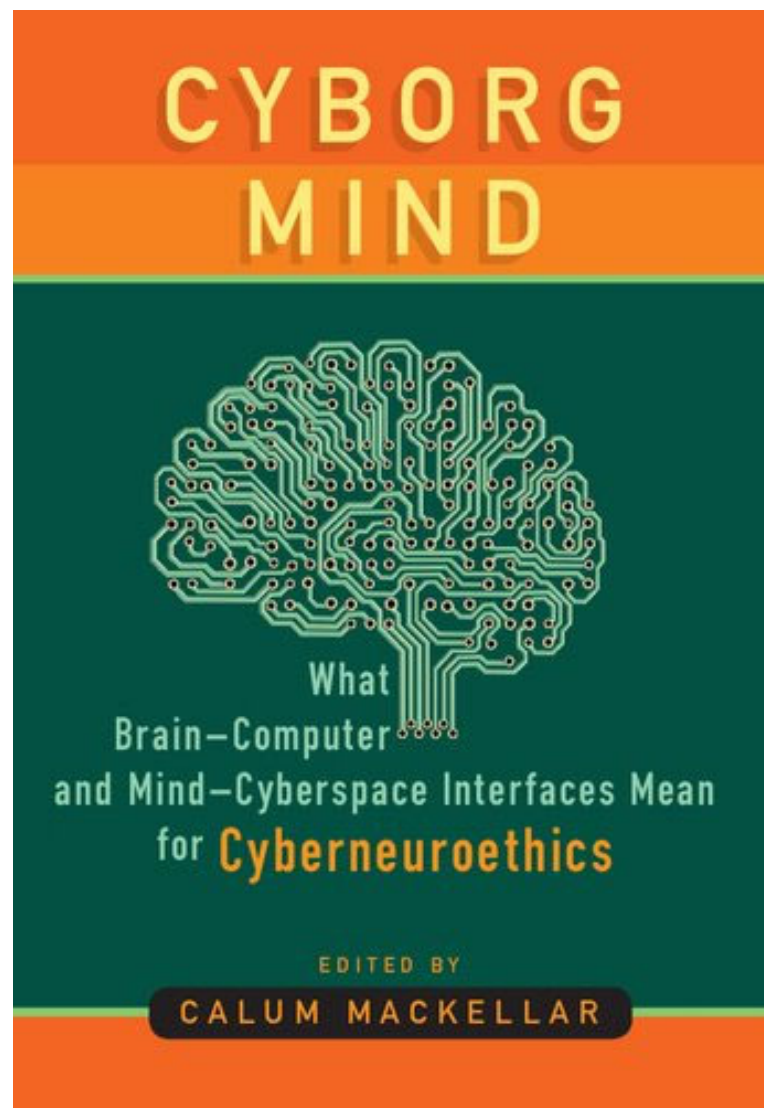
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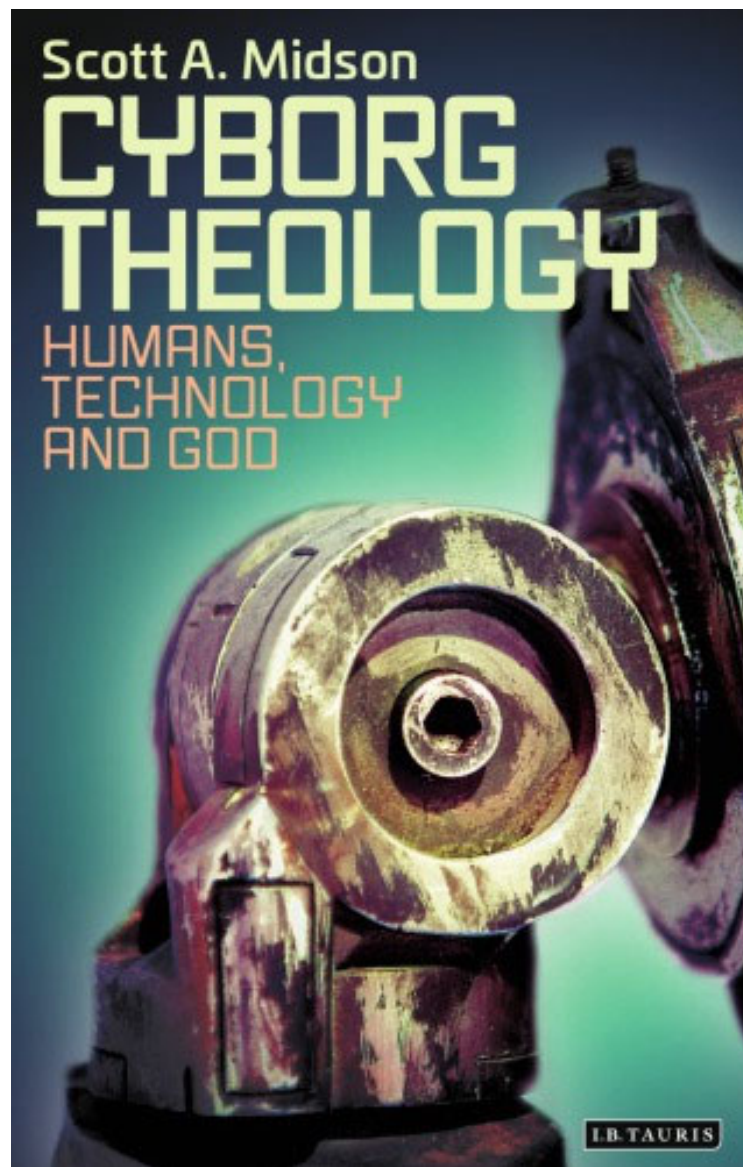
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## کتاب مرجع

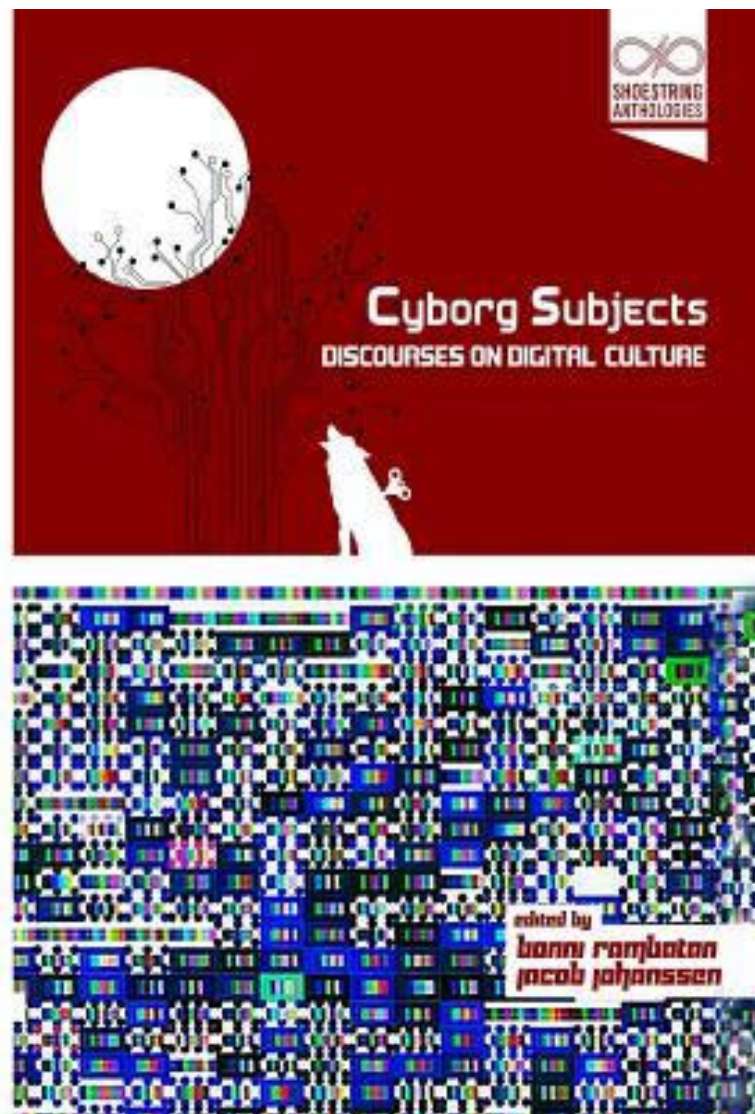


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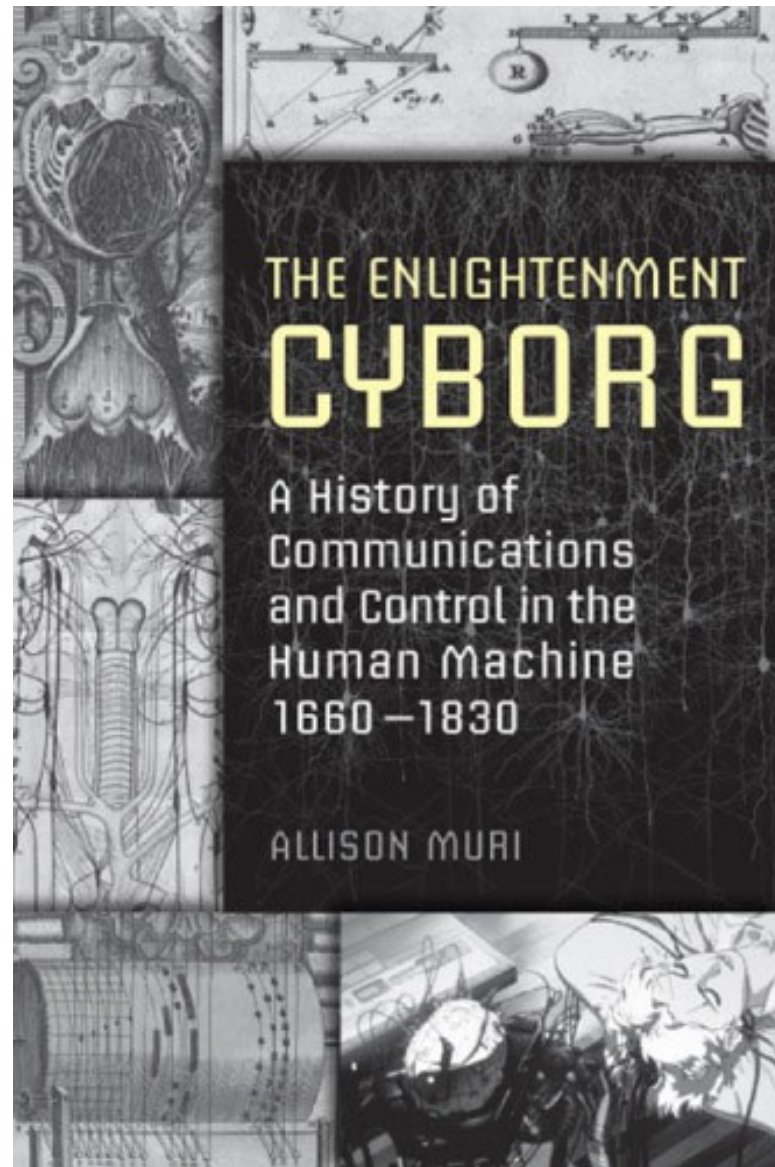




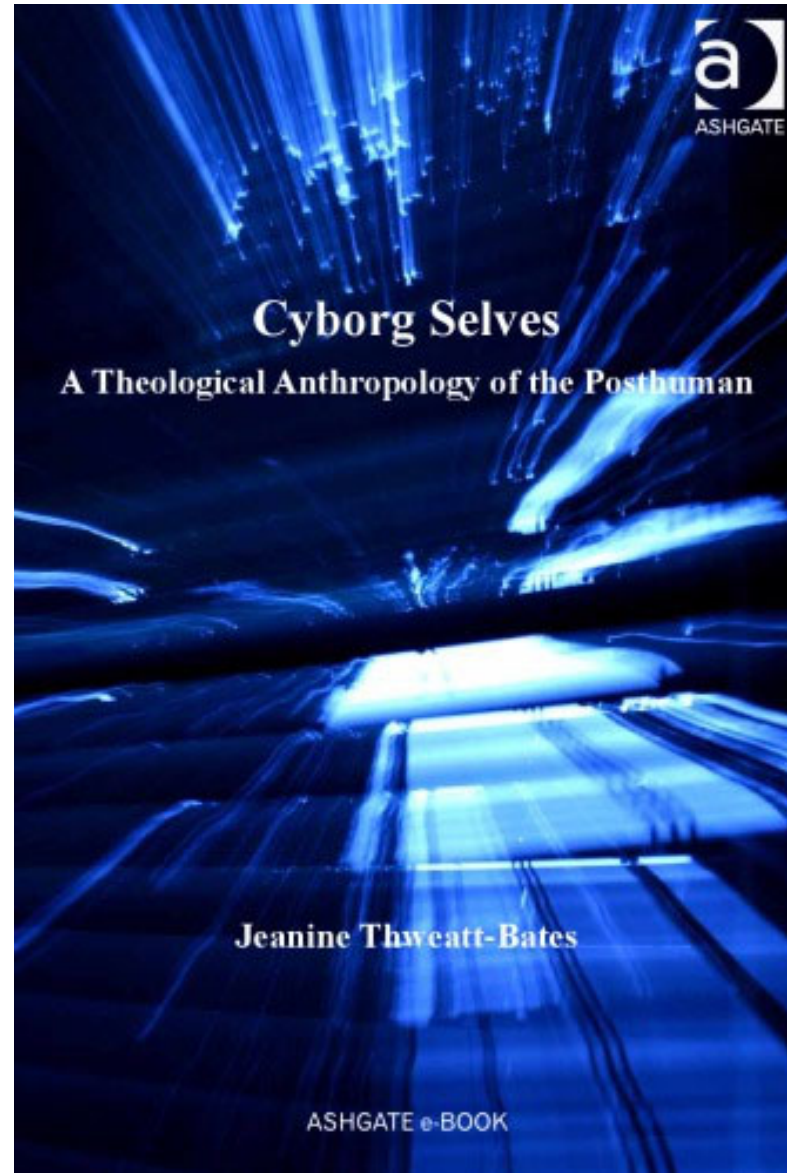
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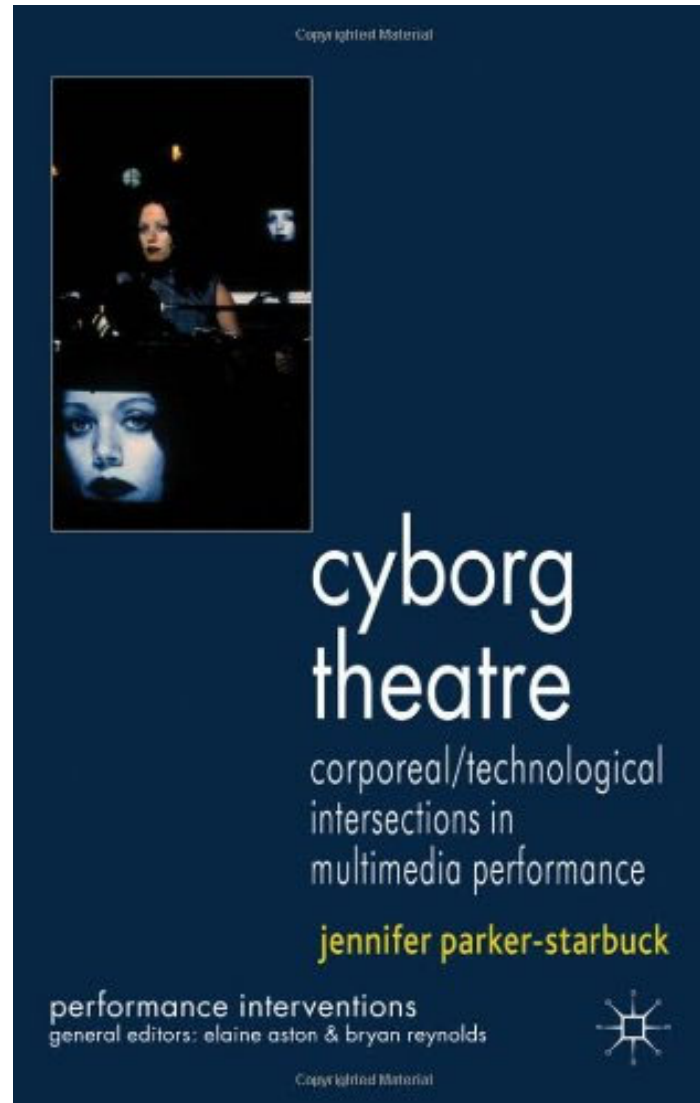
کتاب مرجع



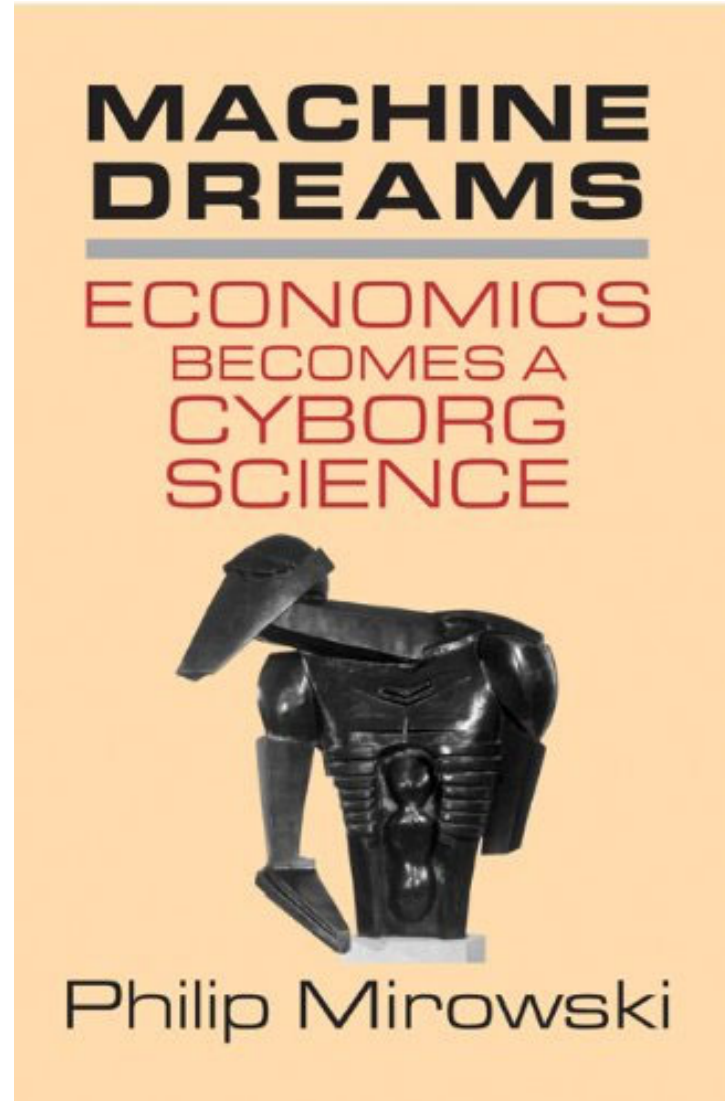
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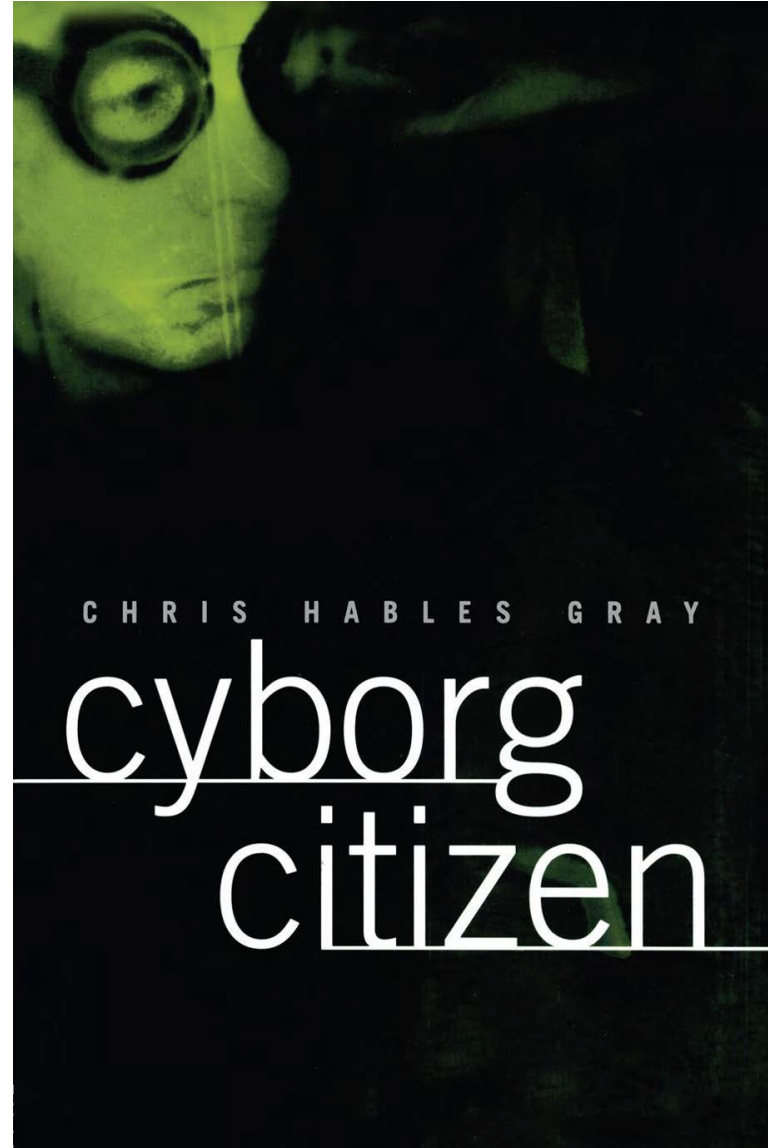
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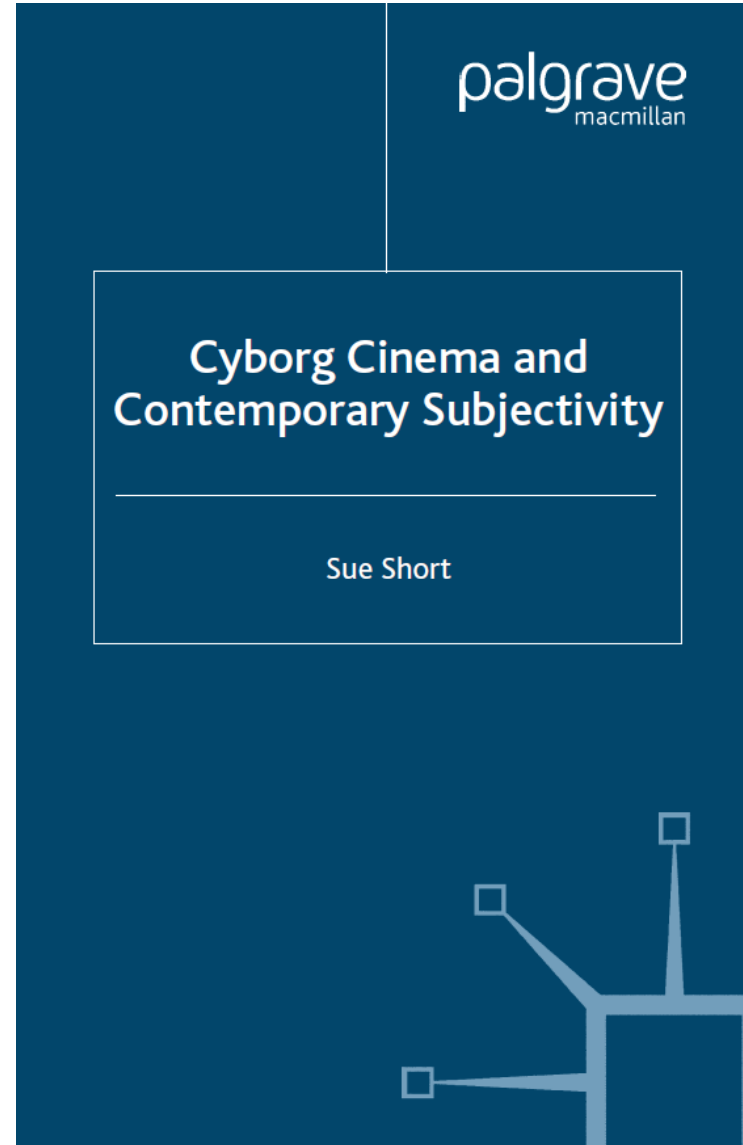
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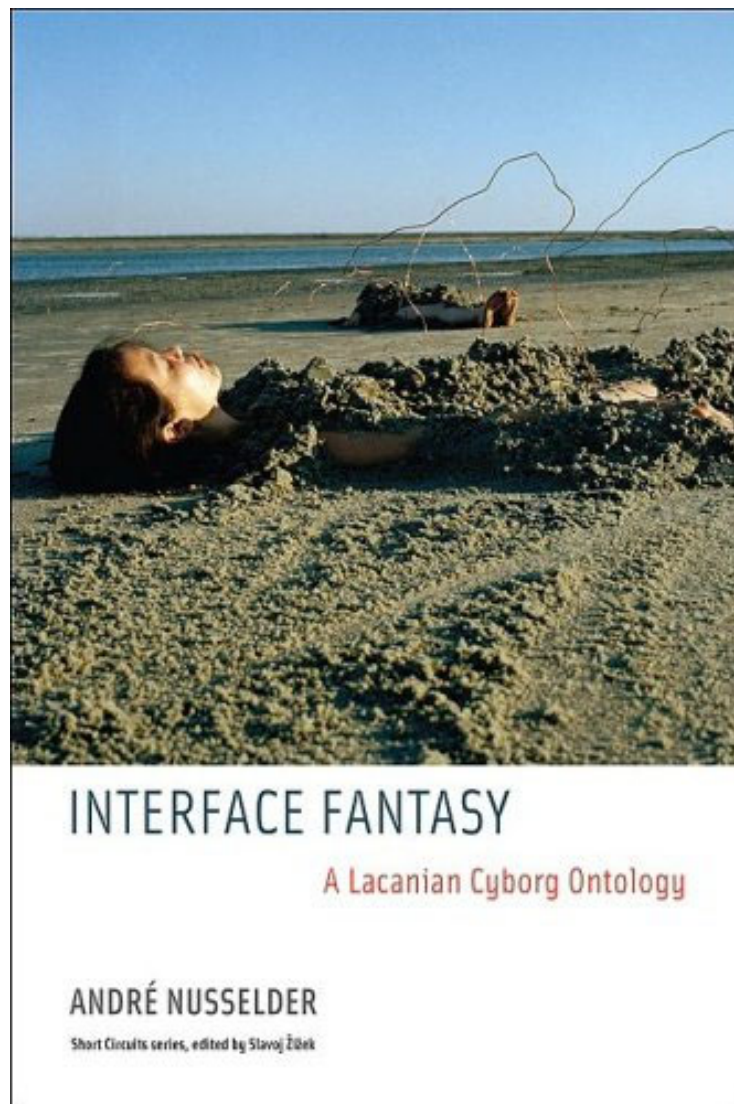
## کتاب مرجع



## کتاب مرجع

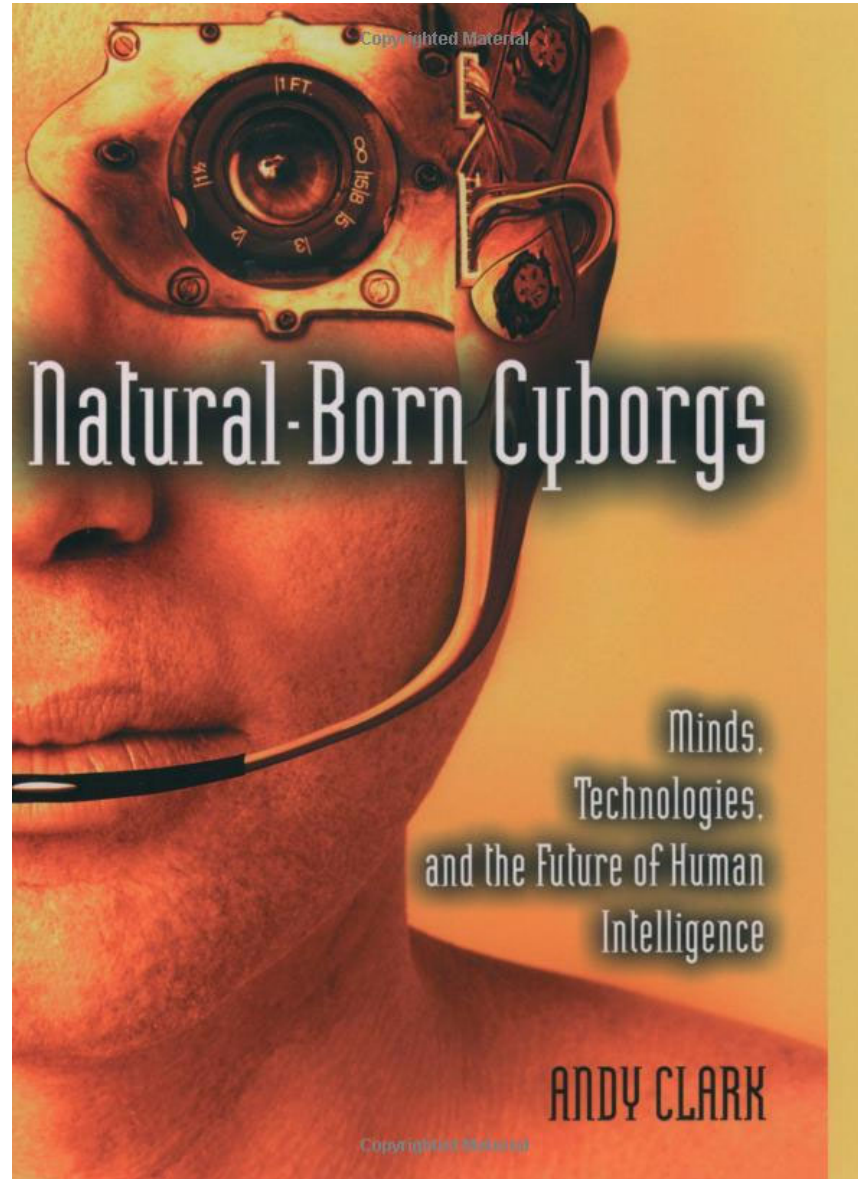


کتاب مرجع

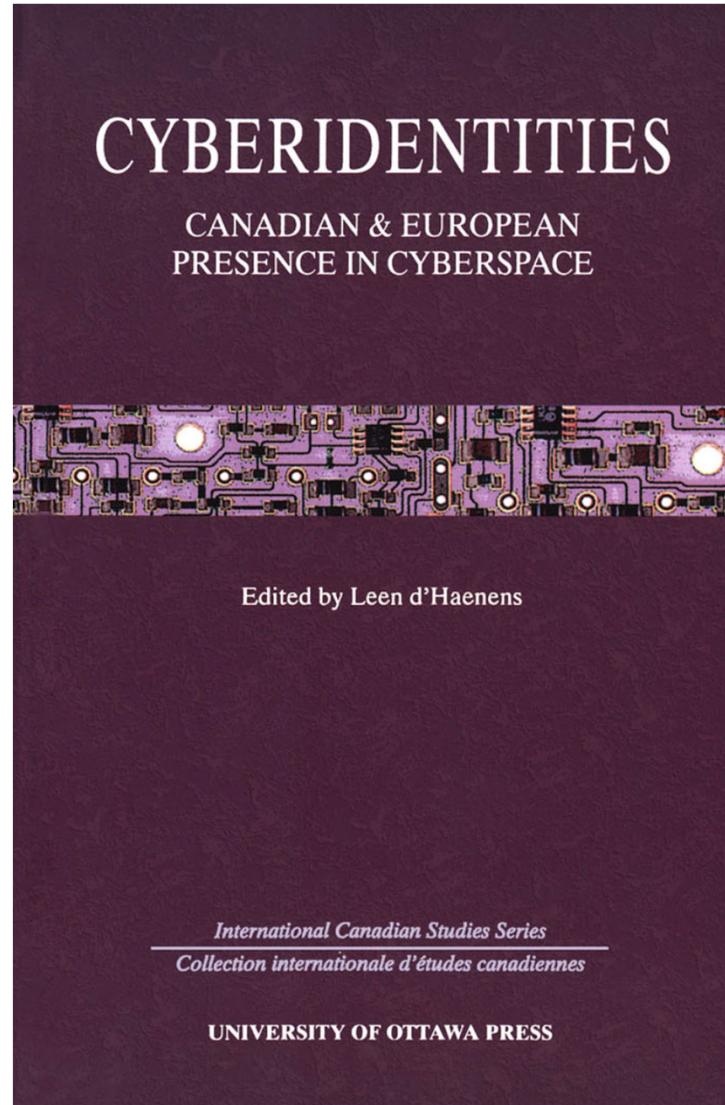




## کتاب مرجع



## کتاب مرجع



## کتاب مرجع

'A boldly reactionary book... What looks like feast, Carr argues, may be closer to famine... The internet is a distraction machine.' *Sunday Times*

# THE SHALLOWS

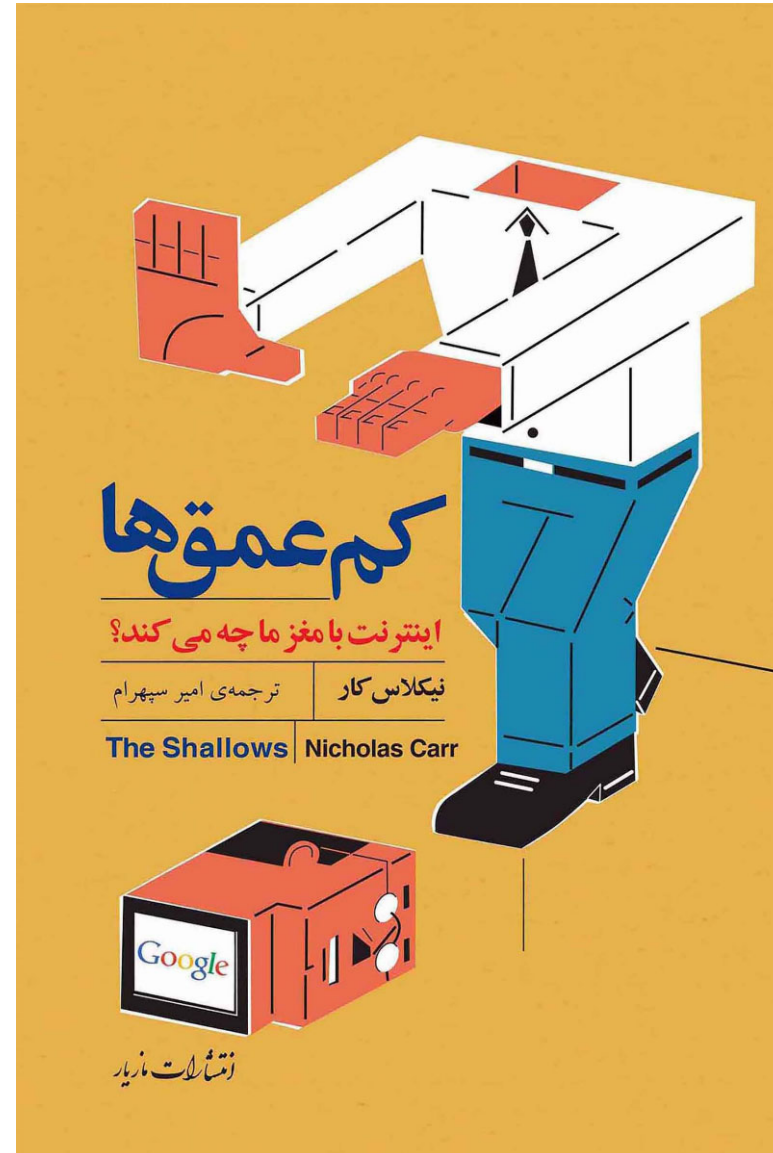
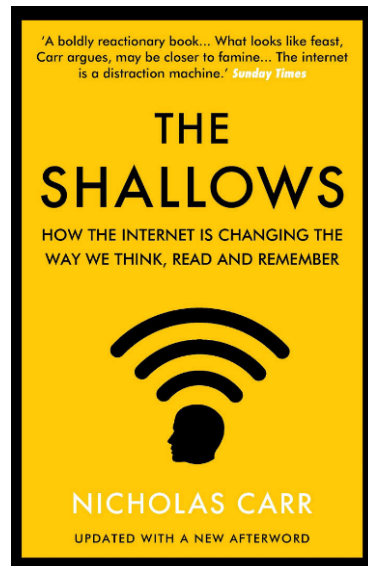
HOW THE INTERNET IS CHANGING THE  
WAY WE THINK, READ AND REMEMBER



NICHOLAS CARR

UPDATED WITH A NEW AFTERWORD

## کتاب مرجع



# کتاب مرجع

