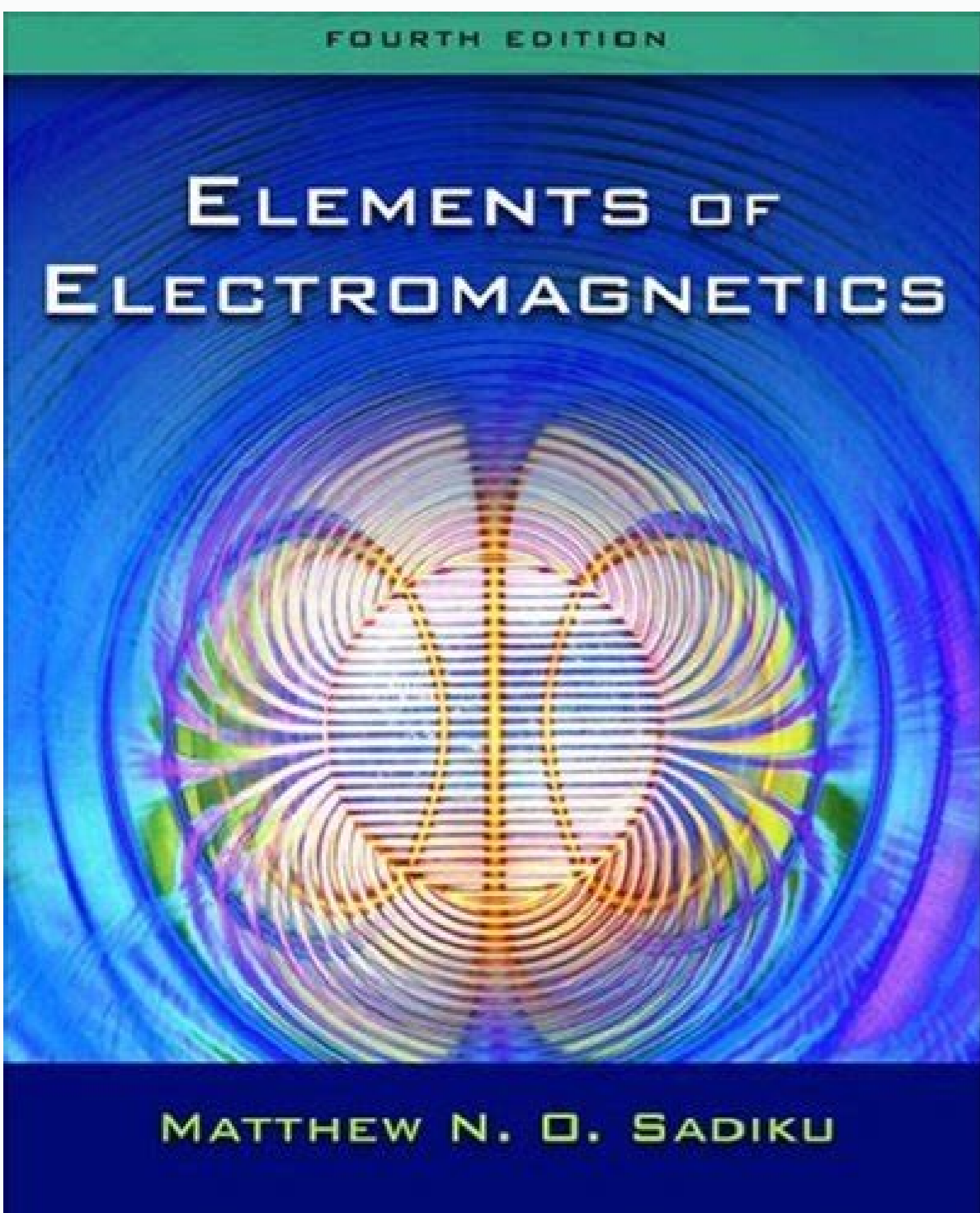
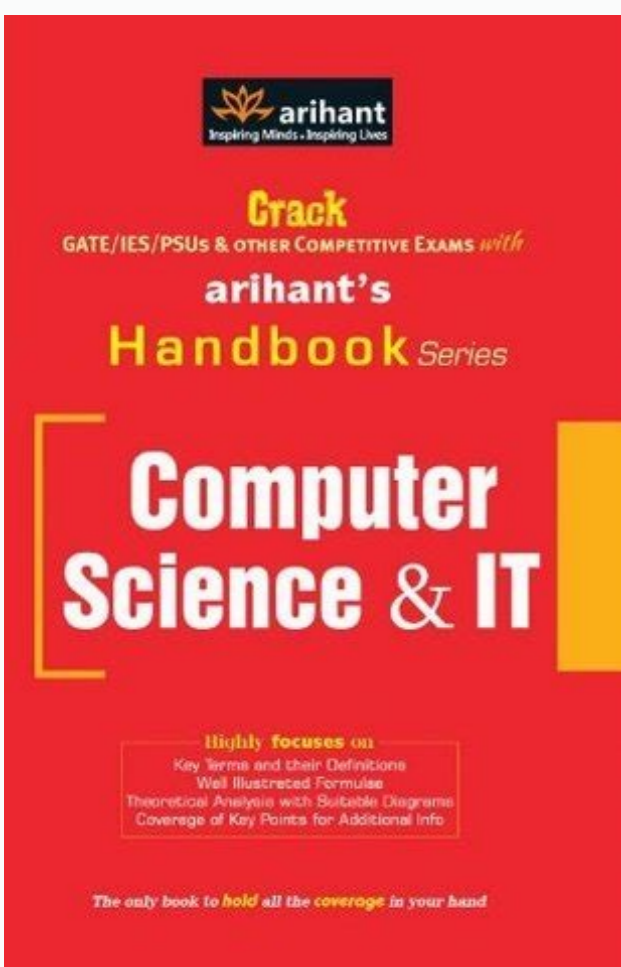
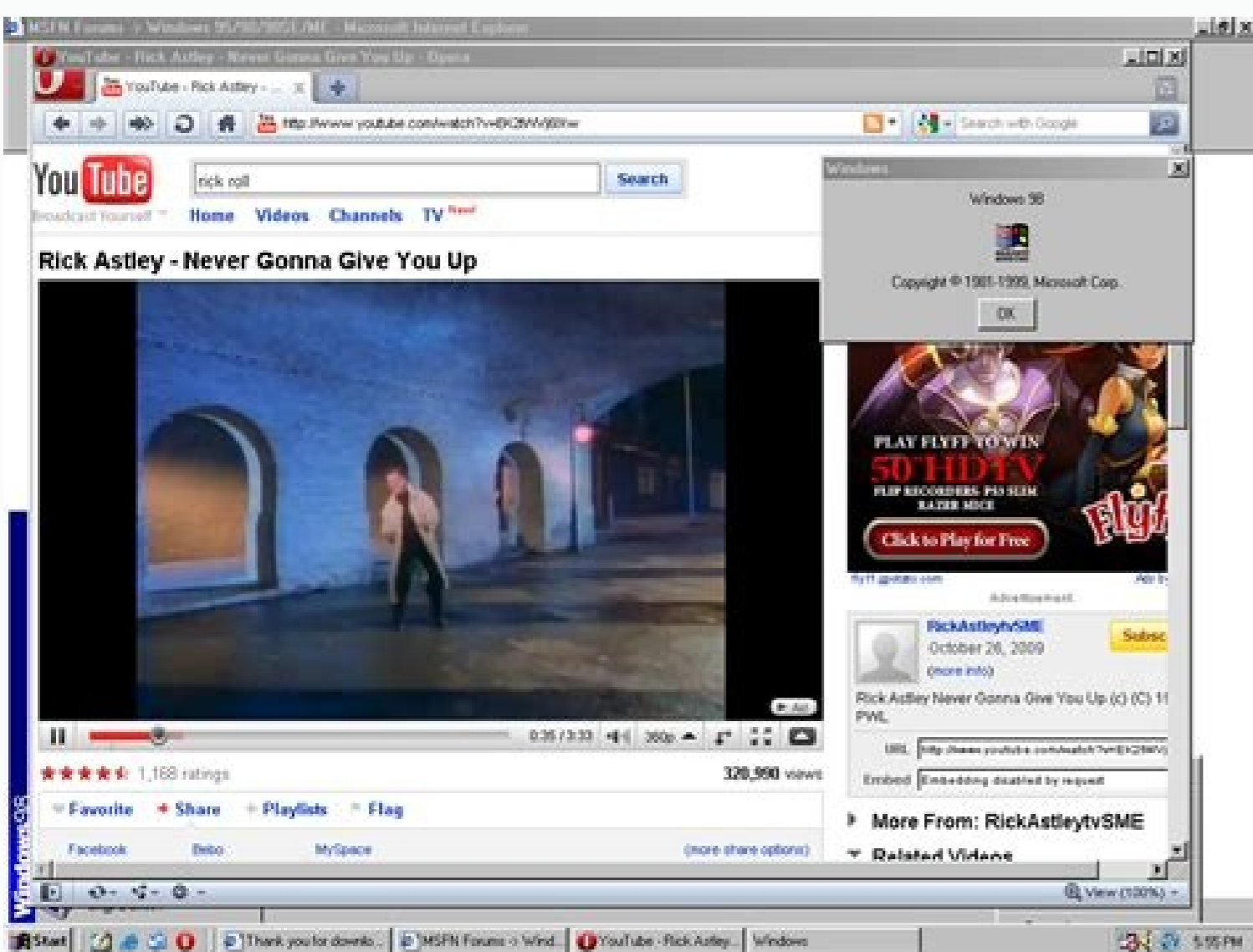
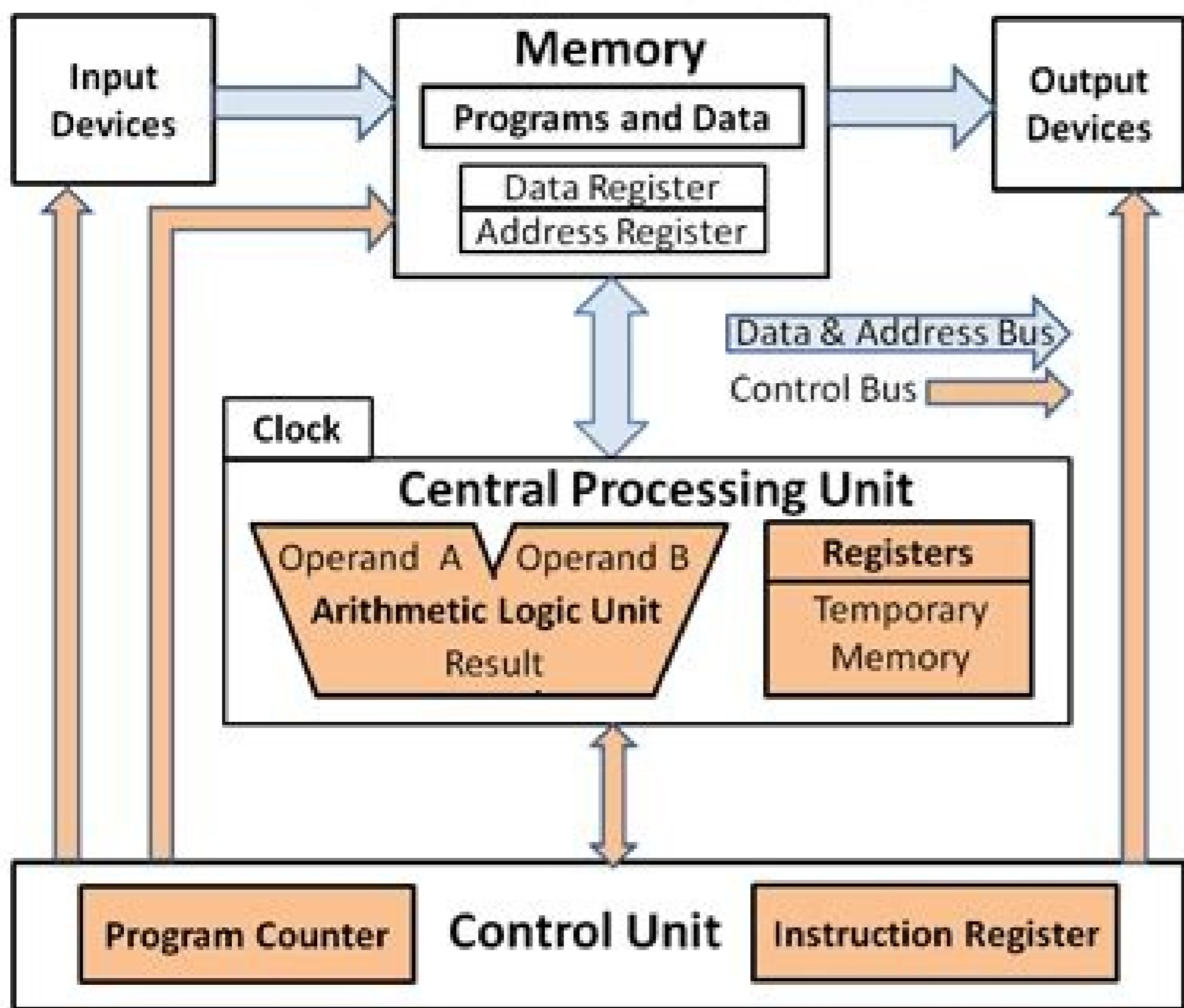


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# Von Neumann Architecture





## Digital Language Teaching and Learning: A Case Study

Viviana Gaballo<sup>1</sup>

University of Macerata, Italy<sup>1</sup>

### Abstract

Digital learning is reshaping education in unprecedented ways. However, as far as language learning is concerned, the burden of innovation has mostly relied on the good will of individual teachers who have decided – sometimes in perfect isolation – to take advantage of the new technologies made available. Although institutions have increasingly offered their support so that language teachers could incorporate new technologies into their syllabi in a more organic way, e.g. by making use of either open-source or proprietary platforms installed in the institution's systems, the "interaction" between the "container" and the "content" has been left to the individual teacher's expertise until recently. Language textbook publishers have previously been reluctant to join the digitization of the learning experience, providing only a limited set of online tools (e.g. flashcards and tests) linked to their own textbooks, and waited until numbers would justify their complete involvement in the business. Some of them have now made up for their delay or absence, offering language teachers an integrated set of tools capable of relieving them from the most demanding and time-consuming tasks. This paper draws on the English classes taught to BA students in Economics in the past two years, and analyses the fully-fledged platform provided by the publisher of the adopted textbook, investigating its research-based design, ready-to-go activities and customizable content, and evaluating its impact on the development of digital learning and teaching skills.

**Keywords:** Digital learning, online learning, language learning platform, language learning innovation, technology-enhanced language teaching and learning, CLIL.

### 1. Introduction

In the context of digital language teaching and learning, greater emphasis has been placed on the learning half of the process. Recent developments in the field of computer-assisted language learning proved the positive effects of technology used in promoting learning [1] [2]. An open argument, though, relates to the significant difference in the way learners and teachers have access to technology in educational settings. Learners' access may take place in either or both of these two ways: "learning from" and "learning with" technology – where the former underlines the instrumental use of technology and the learner's relative passivity in the process, while the latter hints at a more active participation or interaction from the learners [3]. Quite the opposite is the case with teachers: "teaching with" technology generally implies an instrumental approach to the use of technology in language classes, while "teaching from" technology reflects the interactive, immersive experience of teaching from within a learning environment [4]. Whether using online, blended, or class-based learning, teachers are faced with the challenge of combining a more informal learner-centered approach – giving learners control over their learning process – with the prevalent practices of teacher-centered modes – based on set goals and standard forms of assessment. In order to balance learner autonomy, personal choice and the affordances of LMS tools, teachers (as all the stakeholders in the learning process) need to master the complex triangulation of the pedagogical, methodological and technological levels [5]. In this setting, moreover, we have recently witnessed the digital shift of educational publishers, who have sort of re-invented themselves as educational technology providers. The shift from hard copies to software solutions has opened new possibilities, facilitating tech-savvy teachers' work while moving the most technophobic teachers out of their comfort zone. The purpose of this paper is to analyze the interrelationships arising from these dimensions of innovation in language learning in order to contribute to the conceptual understandings that underpin university teaching approaches to technology integration [6].

### 2. The role of educational publishers in technology integration

Introducing change is not easy, especially in rather traditional systems such as the educational publishing industry. Language textbook publishers have taken their time to implement the digital transition of the learning experience. From the limited set of online tools (e.g. flashcards and tests)

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The design of the design and the organization of a digital computer is essential for a successful software design and an efficient hardware implementation. In this classic book, the widely recognized authority, Morris Mano, provides updated coverage of fundamental concepts for the computer design and their subsystems, paying special attention to interface considerations between the CPU and memory, buses, buses , control, input/output processing, interruptions and direct access to memory (DMA). The integral coverage presented in the architecture of the informal system by Morris Mano PDF 4th Edition Free Download Download offers valuable history for readers who wish to study this material more or apply it in the subsequent engineering practice. When dealing with computer architecture, Asa rop rop ocit;Ámrofní ametsis led arutocetiúgra atsE .selatigíd sarodatupmoc sal ed erawdrah ed n'Áicarepo al rednerpmoc arap otrasecen ocis;Áb otnemiconoc le anoiroporp FDP noitidE ht4 onaM sirroM ocit;Ámrofní ametsis led arutocetiúgra atse .arodatupmoc al ed o±Áesid le y n'Áicazinagro al J I'm gonna go J I'm gonna go Jmaterial and in practice of later engineering and IT. The book also examines the design of computer systems, including topics such as memory hierarchies, input/output processing, interruptions and direct access to memory, as well as the advanced architectural aspects of parallel processing. Apply now begin your path to professional success with strategic , Recommendations of the MBA Bachelor, Master and MBA program. Apply in 5 minutes. A computer system is an interrelated set of hardware, firmware and software components designed to work together to achieve a set of objectives. A computer system should contain certain elements, which are usually called subsystems (computers have hardware and software subsystems; other devices only have hardware or firmware). These elements include CPU, memory, storage devices and input/output interfaces. This new text makes the design and implementation of accessible and understandable computer systems for the initial engineering or computer student. The authors adopt a mystery-free approach to computer systems. They interlink three different views to provide a unique understanding of the topic: the perspective of the logical designer, the assembly language programmer and the computer architect. The Morris Mano PDF 4th Edition computer system architecture Free download has an updated coverage of the latest developments in microprocessors, including ALU, pipes, memory hierarchy, networks and the Internet. And, instead of focusing on a single type of architecture, Heuring and Jordan examine the ISA-level CISC and RISC models using the unequivocal language of RTN (registration transfer rating), which allows for a deeper appreciation of the a sotnujda sojelpmoc sametsis ne setneidnepedni y selpmis sedadinu edsed odanoicolove ah saicneic y etra ed oirotirce ed sarodatupmoc sal ed oirbiluqe nU roiretsop atreibuC .senoicnuf y aniuq;Ám al ed sarutcurtse networks and internetworks. In order for the material to be accessible to beginners, the author has included two examples of increasing complexity execution: the very simple CPU, which contains four sets of instructions and shows a very simple CPU design; and the relatively simple CPU that contains 16 sets of instructions and adds enough complexity to illustrate more advanced concepts. Each chapter presents a real world machine in which the discussed organization and concepts of architecture are implemented. This book is designed to teach computer organization/architecture to engineers and computer sciences. They defuse the hardware operation of digital computers. Printed to help electrical engineers, computer and computer engineers, the volume includes: á CLAVE CHARACTERISTICS: á The computer architecture, the organization and the design associated with computer hardware: the various digital components used in the organization and design of digital computers "Detailed steps by which a designer should pass to design a basic computer basic instructions: the organization and architecture of the dedicated baking unit: the Apply in 5 minutes. Would you like to get the architecture of the Morris Mano 3rd Edition Pearson Education PDF Book? Have you been looking for a site that offers an architecture of Morris Mano 3rd Edition Pearson Education PDF Free download? 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