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A Novel Design of Photonic Band Gap by F.W.C.I.P Method

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-Abstract- **The study of the photonic one-dimensional structures gaps was approached by several methods of analysis such as the FDTD, the method of the flat waves.**
Our innovation in this study consists in using the iterative method based on the concept of wave FWCIP which establishes a relation of recurrence between the waves incidents and the waves reflected to see the electromagnetic behaviour of the dielectric one-dimensional structures And by calculating the coefficient of transmission and reflection, a comparison will be made at the level of these two coefficients with those found by means of the method of the FDTD.
Key words- Photonic Band Gap, FWCIP

I- INTRODUCTION

Materials with Photonic prohibited bands are made of a periodic assembly of two or several dielectric or metallic materials. They present frequency bands for which the distribution of the electromagnetic waves is forbidden **[1]** **[2]**. The structures in 1D **[3]** are the oldest although they were integrated into the structures PBG.
Indeed, they were studied and used already for a long time as dielectric mirrors or optical filters.
They consist in piling several layers of dielectric materials with different permittivity (Principle of Bragg's mirror) **[4]**.
The prohibited bands are all the bigger as the contrast of indication is raised for thicknesses of structures equal to the quarter of the guided wavelength.

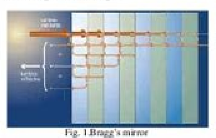

Fig. 1.Bragg's mirror

Our work consists in exciting this structure by an incidental flat wave and in explaining the electromagnetic behaviour of this material in terms of coefficient of transmission and coefficient of reflection.

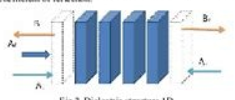

Fig.2. Dielectric structure 1D

All our study will be made by the iterative method based on the concept wave **[5]**. The incidental wave $\vec{A}_0$ is going to give birth to the reflected wave $\vec{A}_1$ which is going to propagate to give birth to the diffracted wave $\vec{B}_1$. This process is made n time until reaching the convergence.

Fig. 3.Definition of the waves

The concept of wave is introduced by expressing the incidental and reflected waves into the interface according to the electromagnetic sizes, the electric field and the density of current tangential on the surface Ω :

A climbing image nudged elastic band method for finding saddle points and minimum energy paths

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A modification of the nudged elastic band method for finding minimum energy paths is presented. One of the images is made to climb up along the elastic band to converge rigorously on the highest saddle point. Also, variable spring constants are used to increase the density of images near the top of the energy barrier to get an improved estimate of the reaction coordinate near the saddle point. Applications to CH_4 dissociative adsorption on Ir(111) and H_2 on Si(100) using plane wave based density functional theory are presented. © *2000 American Institute of Physics.*
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I. INTRODUCTION

An important problem in theoretical chemistry and condensed matter physics is the calculation of transition rates, for example rates of chemical reactions or diffusion events. Most often, it is sufficient to treat the motion of the atoms using classical mechanics, but the transitions of interest are typically many orders of magnitude slower than vibrations of the atoms, so a direct simulation of the classical dynamics is not feasible. For a process with a typical, low activation energy of 0.5 eV, the computer time required to simulate a classical trajectory long enough that a single transition event can be expected to occur is on the order of 10^4 years on present day computers. This ''rare event'' problem is devastating for direct dynamical simulations, but makes it possible to obtain accurate estimates of transition rates using a purely statistical approach, namely, transition state theory (TST).[1–4] Apart from the Born–Oppenheimer approximation, TST relies on two basic assumptions: (a) the rate is slow enough that a Boltzmann distribution is established and maintained in the reactant state and (b) a dividing surface of dimensionality D-1, where D is the number degrees of freedom in the system, can be identified such that a reacting trajectory going from the initial state to the final state only crosses the dividing surface once. The dividing surface must, therefore, represent a bottleneck for the transition.

Since atoms in crystals are usually tightly packed and the typical temperature of interest is low compared with the melting temperature, the harmonic approximation to TST (hTST) can typically be used in studies of diffusion and reactions in crystals or at crystal surfaces.[5] This greatly simplifies the problem of estimating the rates. The search for the optimal transition state then becomes a search for the lowest few saddle points at the edge of the potential energy basin corresponding to the initial state. The rate constant for transition through the region around each one of the saddle points can be obtained from the energy and frequency of normal modes at the saddle point and the initial state,[6,7]

$$k^{hTST} = \frac{\Pi_i^{3N} \nu_i^{init}}{\Pi_i^{3N-1} \nu_i^{\ddagger}} e^{-(E^{\ddagger}-E^{init})/k_B T}. \quad (1)$$

Here, $E^{\ddagger}$ is the energy of the saddle point, E^{init} is the local potential energy minimum corresponding to the initial state, and the ν_i are the corresponding normal mode frequencies. The symbol ‡ refers to the saddle point. All the quantities can be evaluated from the potential energy surface, at zero temperature, but entropic effects are included through the harmonic approximation. The most challenging part in this calculation is the search for the relevant saddle point.

A path connecting the initial and final states that typically has the greatest statistical weight is the minimum energy path (MEP). At any point along the path, the force acting on the atoms is only pointing along the path. The energy is stationary for any perpendicular degree of freedom. The maxima on the MEP are saddle points on the potential energy surface. The relative distance along the MEP is a natural choice for a reaction coordinate, and at the saddle point the direction of the reaction coordinate is given by the normal mode eigenvector corresponding to negative curvature.

The MEP often has one or more minima in addition to the minima at the initial and final states. These correspond to stable intermediate configurations. The MEP will then have two or more maxima, each one corresponding to a saddle point. Assuming a Boltzmann population is reached for the intermediate (meta)stable configurations, the overall rate is determined by the *highest* saddle point. It is, therefore, not sufficient to find a saddle point. One needs to have a good enough estimate of the shape of the MEP to be able to assign the highest saddle point as ‡ in Eq. (1) in order to get an accurate estimate of the rate.

Trumpet

Major Scales and Arpeggios

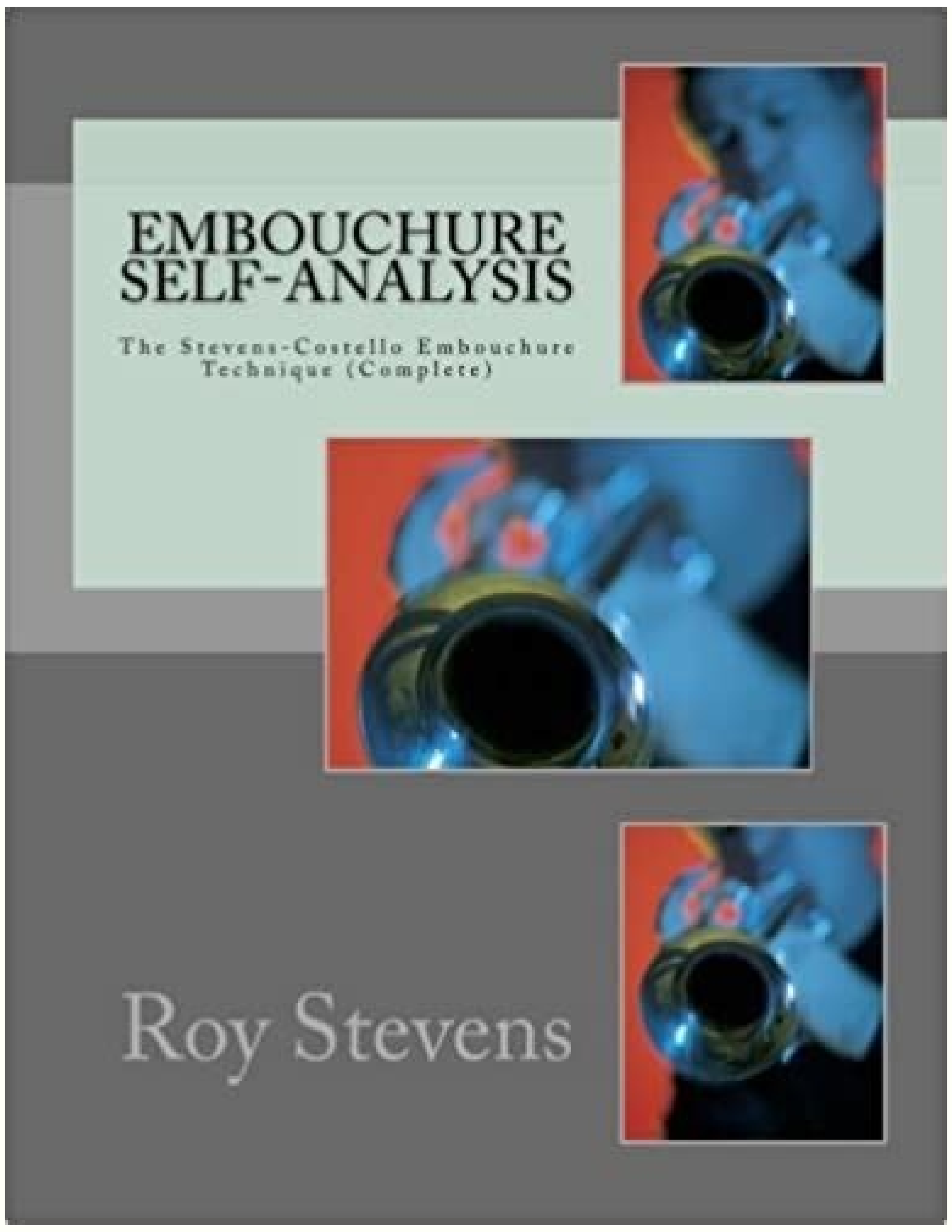
In Range Order

(E) F# Major

(F) G Major

(Gb) Ab Major

(G) A Major



SSAT 2021 Reading Implementation Test. This no test is for students of a higher and no way. SSAT Reading Understanding Path 2021 Reading Understanding 1 Instructions: Read each passage and answer questions that follow it. If you are asked the color of the CT on a fair day in the venue, your answer will probably be "blue". This answer is only partially correct. Blue cage near the horizon is not the same type of blue as it is high. Look at a good day and you will find out that the blue you are near the horizon is a little greenish. It is as your eye moves up towards ZãªNite, you will find out that blue turns into pure blue and finally shaded into a violet blue overload. Did you hear the story of a farmer who is chosen from the color of the artist's image? He said to the artist: â € œWhy do you do those blue hills? They are green, I was and I know! The artist asked him to do a small experiment. ¢ âferences "Filling and look at the hills between their legs. - Since the farmer did this, the artist asked: â € œIt that color are the hills? ¢ âferences by God, they got blue! ¢ âferences € said. It is quite possible that you have analyzed many colors that you really recognized. The conception is not only blue; Are many types of blue. The grass is not smooth green; It can be one of the variety of green varieties. A wall of red bricks often not pure red. It may vary from orange yellow to red-fastener, but for the eye infeeding it is only red brick. Q1. Which one best expresses the ideas of this passage? (A) "The" (b) "(b)" (b) artists vs. farmers "(c)" (C) (D) Hills. Answer: C - The main idea, the topic of this passage, is looking closely at the colors forrecognize them. The farmer is the vehicle to make the point, and the centers and the hills are used as illustrations. Q2. In Zenith, the CT is usually a-violet. (B) Violet-red. (C) Blue Blue. (D) Yellow-orange. Answer: The last sentence of the first paragraph gives you this detail. Q3. The author suggests that (a) the farmers are a blind color. (B) The perceived color varies. (C) brick walls should be painted pure red. (D) Some artists use poor colors combination. Answer: B You should be able to infer this response from the passage. If not, you can choose the correct answer by eliminating all other choices as a ridiculous. Q4. The word Zenith in the first paragraph probably refers to (a) a color. (B) a point directly on the head. (C) a point on the horizon. The hills. Answer: B Reread the first paranhar carefully if you understood this wrong. The phrase â € œmove up to Zenithâ € should take it to the correct answer. Understanding reading 2 While Europeans were still cautiously dragged along their backs, the police made travel between Hawaiã and New Zealan, at a distance of 3,800 miles, in Frãgile Canoes. These fearless sailors of the peacekeeping explored all the islands in their vast domain without even the simplest navigation tools. During the day, the polyans guided their ofncio by the position of the sun, the tendency of the waves and the wind, and the flight of marine birds. The stars were used during long trips between groups of islands. Young people who study navigation were taught to see the CT as a cylinder in which the navigation roads were marked. An invisible line biseded the North Star Cruz of the South. In addition to canoes, the polyans often used canoes for transpacific travel. The two boats were fixed together by Canopied platforms that protected passengers from the sun and the 06 06 radomoca airedop e yhtrowaes etnemlevaton mare soicÃfo siaT , and : Srerolpxe sa llew sa sremonortsa erew)d( ) (The eht eht fo yrotsih eht ')b('srolias naeporu' ')a(?noitceles siht rof tseb siltit hciw birds, birds, especially, are capable of migratory journeys. Aristotle was convinced that the birds that wintered in Greece were not new arrivals, but merely Greece¢ÃÂÂs summer birds in winter dress. According to a belief persisting in some parts of the world to this day, swallows and swifts do not migrate, but spend the winter in hibernation. (Swifts and swallows do migrate, just as most other Northern Hemisphere birds do.) Another old and charming, but untrue, legend enlists the aid of the stork in getting small birds to and from winter quarters: Small birds are said to hitch rides on theEuropean stork¢ÃÂÂs back. It is clear why Northern Hemisphere birds fly south in the fall; they go to assure themselves of food and a more favorable climate for the winter months. It is also clear where most of the migrants come from and where they go. Years of birdbanding have disclosed the routes of the main migratory species. But there are other aspects of migration that remain, for all our powers of scientific investigation, as puzzling and mysterious to modern man as to the ancients. Why do migrant birds come north each spring? Why don¢ÃÂÂt they simply stay in the warm tropics the whole twelve months of the year? What determines the moment of departure for north or south? Above all, how do birds¢ÃÂÂespecially species like the remarkable golden plover, which flies huge distances directly across trackless ocean wastes¢ÃÂÂfind their way? Q9. Which of the following is the best title for this selection? (A) ¢ÃÂÂThe Solution of an Ancient Problem¢ÃÂÂ (B) ¢ÃÂÂMysterious Migrations¢ÃÂÂ (C) ¢ÃÂÂThe Secret of the Plover¢ÃÂÂ (D) ¢ÃÂÂAristotle¢ÃÂÂs Theory¢ÃÂÂ Ã Answer: BÃ The topic of the passage is bird migration and the mystery it has presented throughout the ages. Q10. Bird-banding has revealed (A) the kind of food birds eat. (B) why the birds prefer the tropics in the summer. (C) why birds leave at a certain time. (D) the routes taken by different types gniledomeR ')C(' The rof stnal ? , er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, er, A:rewsnA)At the end of the year, the end of the year is the end of the year.)A(stfiws dna swollawS .11Q .tnemets D:rewsnA .sdrib (D) (D) ¢ÃÂÂA More Abundant World ¢ÃÂÂ Ã Answer: CÃ Choosing the title for this paragraph takes more than one reading of the paragraph. This is not an easy question. After a couple of readings, however, you should be able to conclude that the all-inclusive subject of the paragraph is the remodeling of plants. An equally correct title, not offered here, might be ¢ÃÂÂUses and Effects of Colchicine.¢ÃÂÂ Q14. Mutation in plant life results in (A) diseased plants. (B) hybrids. (C) new varieties. (D) fertility. Ã Answer:C Ã Buried in the middle of the paragraph (lines 6¢ÃÂÂ7) is the sentence: ¢ÃÂÂIt creates new varieties with astonishing frequency, whereas such mutations occur but rarely in nature.¢ÃÂÂ Q15. Colchicine speeds the improvement of plant species because it (A) makes possible the use of foreign plants. (B) makes use of natural mutations. (C) creates new varieties very quickly. (D) can be used with sixty-five different vegetables, fruits, and flowers. Ã Answer:CÃ This question becomes easy to answer after you have dealt with the previous question. Q16. According to the passage, colchicine is a (A) poisonous drug. (B) blight. (C) kind of plant hunter. (D) hybrid plant. Ã Answer:AÃ The third sentence states that colchicine is a poisonous drug. About the year 1812, two steam ferryboats were built under the direction of Robert Fulton for crossing the Hudson River, and one of the same description was built for service on the East River. These boats were what are known as twin boats, each of them having two complete hulls united by a deck or bridge. Because these boats were pointed at both ends and moved equally well with either end foremost, they crossed and re-crossed the river without losing any time in turning about. Fulton also contrived, with great ingenuity, floating docks for the reception of the ferryboats and a means by which they were brought to the docks without a shock. These boats were the first of a fleet that Since carrying hundreds of passenger million and New York passengers. Q17. Which one best expresses the main identity of this selection? (A) "crossing the Hudson River by boat" (b) "passenger transport" (c) "the inventive of floating docks" (D) "the use of the steam ferry service" Answer: The selection is on the use of the vapor boat service. Q18. Steam ferry were known as genes because (A) they had two full hooves joined by a bridge. (B) They could easily advance as for the transfers. (C) Each ferry had two captains. (D) Two boats were placed in the service at the same time. Answer: A view to lines 3 - 4, where it states that the boats were € œ -known as boats, each with two full hooks joined by a deck or cloak. What affirmation is true according to the selection? (A) The boats constructed under Fulton's direction is still in use. (B) Fulton planned a reception to celebrate the first boat. (C) Fulton piloted the first steam ferry throughout Hudson. (D) Fulton has developed a satisfactory way to dock the ferries. Answer: The next sentence of the nearby pity over Fulton's envision from floating docks to the ferries. Q20. Robert Fulton worked in the San XVII. (B) SOUND XVIII. (C) San XIX. (D) San XX. Answer: CA 1812 It was in the nineteenth century. Q21. In line 8, the word shock is used to mean a unpleasant surprise. (B) Impact. (C) disease after an accident. (D) Impulse ELÃ © Trico. Answer: Bá ¢ In the context of the paranhar, the shock must refer to the impact of the boat that runs to the dock. Q22. The first steam ferries were constructed to (A) cross the erie canal. (B) Cross the Hudson River. (C) Take passengers to Massachusetts. (D) Travel through the Delaware River. Answer: The first line of the passage states that two of the first steam boats were built for m©Âbmat reV oviuqrA FDP elbatnirP eerF eliF coD elbatidE eerF kniL daolnwoD otnemucoD ed opiT)FDP elbatnirP(arutieL ed acit¡ÃrP ed etseT TASS raxiaB .nosduH oir o

Occupational exposure banding, also known as hazard banding, is a process intended to quickly and accurately assign chemicals into specific categories (bands), each corresponding to a range of exposure concentrations designed to protect worker health.These bands are assigned based on a chemical's toxicological potency and the adverse health effects associated with exposure ... Contact Retention Test Tools The quality assurance test most often overlooked is retention (proper seating of contacts). This important test can be performed simply and in a matter of seconds with the DMC® retention testing tools. The Medical Services Advisory Committee (MSAC) is an independent non-statutory committee established by the Australian Government Minister for Health in 1998. 30/09/2013 · Download SweetFX Shader Suite Download Version 1.5.1 - SweetFX is a universal image improvement and tweaking mod, that works with almost any 32bit DirectX 9, ... 16/05/2022 · Je n'ai encore pas remis au propre mes dessins du printemps. La faute à ma technique de scannage et de « traitement » des dessins : je n'ai toujours pas pris le temps de réapprendre tout ça (surtout pour les dessins en couleur). Je me suis dit : oui mais là, quand même, c'est mon coup de cœur du printemps. Allez, je le fais ! Intarsia is a form of wood inlaying that is similar to marquetry.The start of the practice dates from before the seventh century AD. The technique of intarsia inlays sections of wood (at times with contrasting ivory or bone, or mother-of-pearl) within the solid wood matrix of floors and walls or of tabletops and other furniture; by contrast marquetry assembles a pattern out of veneers glued ...

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