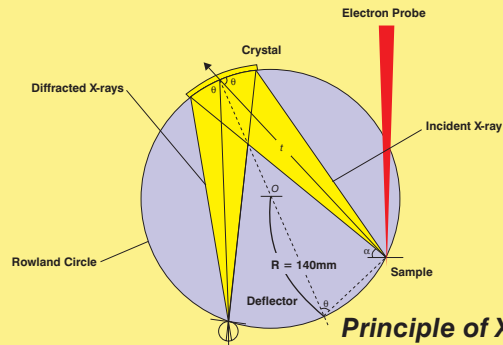


# L-Value Table

	<b>3Li</b>	<b>4Be</b>
LDEB K $\alpha$		221.00
LDE2 K $\alpha$		
LDE1 K $\alpha$		
TAP K $\alpha$		
	<b>11Na</b>	<b>12Mg</b>
TAP K $\alpha$	129.47	107.51

<b>Crystal</b>	<b>2d(A)</b>
LDEB	145
LDE2	98
LDE1	60
TAP	25.757
PET	8.742
LiF	4.027



$$n\lambda = 2d \sin \theta$$

$$L = \frac{R}{d} n\lambda$$

Principle of X-ray Spectrometry

	<b>5B</b>	<b>6C</b>	<b>7N</b>	<b>8O</b>	<b>9F</b>	<b>10Ne</b>	
LDEB K $\alpha$	126.00						LDEB K $\alpha$
LDE2 K $\alpha$	188.53	124.66	88.13	65.87	85.50	68.20	LDE2 K $\alpha$
LDE1 K $\alpha$		208.60	147.50	110.20	199.15	158.82	LDE1 K $\alpha$
TAP K $\alpha$				256.77			TAP K $\alpha$
	<b>13Al</b>	<b>14Si</b>	<b>15P</b>	<b>16S</b>	<b>17Cl</b>	<b>18Ar</b>	
TAP K $\alpha$	90.66	77.46	66.93				TAP K $\alpha$
PET K $\alpha$		228.22	197.20	172.07	151.43	134.26	PET K $\alpha$

	<b>19K</b>	<b>20Ca</b>	<b>21Sc</b>	<b>22Ti</b>	<b>23V</b>	<b>24Cr</b>	<b>25Mn</b>	<b>26Fe</b>	<b>27Co</b>	<b>28Ni</b>	<b>29Cu</b>	<b>30Zn</b>	<b>31Ga</b>	<b>32Ge</b>	<b>33As</b>	<b>34Se</b>	<b>35Br</b>	<b>36Kr</b>	
PET K $\alpha$	119.83	107.57	97.08	88.03	80.19	73.34	67.32	62.01	124.40	115.28	107.12	99.79	93.18	87.20	81.77	76.82	72.30	68.15	PET K $\alpha$
LiF K $\alpha$		233.53	210.76	191.12	174.09	159.22	146.15	134.62	124.40	115.28	107.12	99.79	93.18	87.20	81.77	76.82	72.30	68.15	LiF K $\alpha$
TAP L $\alpha$						235.24	211.44	191.22	173.63	158.29	144.97	133.21	122.75	113.45	105.13	97.73	91.04	84.98	TAP L $\alpha$
LDE2 L $\alpha$		101.80	87.90	76.90	67.90														LDE2 L $\alpha$

	<b>37Rb</b>	<b>38Sr</b>	<b>39Y</b>	<b>40Zr</b>	<b>41Nb</b>	<b>42Mo</b>	<b>43Tc</b>	<b>44Ru</b>	<b>45Rh</b>	<b>46Pd</b>	<b>47Ag</b>	<b>48Cd</b>	<b>49In</b>	<b>50Sn</b>	<b>51Sb</b>	<b>52Te</b>	<b>53I</b>	<b>54Xe</b>	
LiF L $\alpha$	64.36	60.86												250.32	239.16	228.72	218.94	209.76	LiF L $\alpha$
PET L $\alpha$	234.40	219.81	206.55	194.43	183.35	173.17	163.82	155.21	147.25	139.89	133.06	126.72	120.81	115.30	110.16	105.35	100.85	96.62	PET L $\alpha$
TAP L $\alpha$	79.56	74.60	70.10	65.99	62.23														TAP L $\alpha$

	<b>55Cs</b>	<b>56Ba</b>	<b>57La</b>	<b>72Hf</b>	<b>73Ta</b>	<b>74W</b>	<b>75Re</b>	<b>76Os</b>	<b>77Ir</b>	<b>78Pt</b>	<b>79Au</b>	<b>80Hg</b>	<b>81Tl</b>	<b>82Pb</b>	<b>83Bi</b>	<b>84Po</b>	<b>85At</b>	<b>86Rn</b>	
LiF L $\alpha$	201.13	193.03	185.36	109.14	105.83	102.66	99.64	96.74	93.96	91.30	88.76	86.31	83.96	81.71	79.54	77.45	75.45	73.52	LiF L $\alpha$
PET L $\alpha$	92.64	88.91	85.38																PET L $\alpha$
TAP M $\alpha$			161.76	81.96	78.84	75.91	73.15	70.42	68.07	65.74	63.49	61.39							TAP M $\alpha$
PET M $\alpha$			241.47	232.28	223.66	215.53	207.49	200.57	193.68	187.05	180.89	174.88	169.31	163.94					PET M $\alpha$

	<b>87Fr</b>	<b>88Ra</b>	<b>89Ac</b>
LiF L $\alpha$	71.66	69.86	68.14

	<b>58Ce</b>	<b>59Pr</b>	<b>60Nd</b>	<b>61Pm</b>	<b>62Sm</b>	<b>63Eu</b>	<b>64Gd</b>	<b>65Tb</b>	<b>66Dy</b>	<b>67Ho</b>	<b>68Er</b>	<b>69Tm</b>	<b>70Yb</b>	<b>71Lu</b>	
LiF L $\alpha$	178.12	171.27	164.83	158.69	152.96	147.48	142.33	137.44	132.73	128.29	124.07	120.07	116.26	112.61	LiF L $\alpha$
PET L $\alpha$	82.04	78.89	75.92	73.10	70.46	67.93	65.56	63.31	61.14	59.01	56.88	54.75	52.62	50.49	PET L $\alpha$
TAP M $\alpha$	152.62	145.05	137.84		124.69	119.14	113.71	108.71	104.25	100.01	95.88	91.75	87.62	83.49	TAP M $\alpha$
PET M $\alpha$														251.11	PET M $\alpha$

	<b>90Th</b>	<b>91Pa</b>	<b>92U</b>	<b>93Np</b>	<b>94Pu</b>
LiF L $\alpha$	66.48	64.87	63.32	61.83	
PET M $\alpha$	132.54	128.82	125.23		

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